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FILE LAST UPDATED: 29 Aug 2002 (20020829/ED)

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L145 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:426622 HCAPLUS

DN 137:24135

TI Cosmetic compositions comprising alkyl or alkenyl derivatives of succinic acid

IN Klug, Peter; Henning, Torsten; Scherl, Franz
Xaver

PA Clariant GmbH, Germany

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM A61K007-00

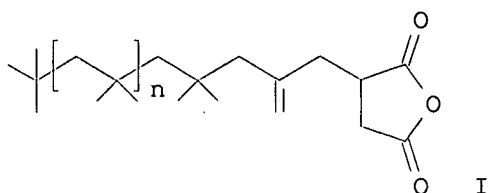
ICS A61K007-48; A61K009-00; A61K009-107

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
	-----	---	-----	-----	-----	
PI	EP 1210929	A2	20020605	EP 2001-127510	20011117	<--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
	DE 10059318	A1	20020620	DE 2000-10059318	20001129	<--
	JP 2002173411	A2	20020621	JP 2001-290983	20010925	<--
PRAI	DE 2000-10059318	A	20001129			<--
GI						



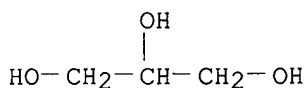
- AB The invention pertains to cosmetic and pharmaceutical agents contg. at least one **emulsifier**, comprising (a) at least one alkyl chain produced by polymn. of (C2-5)-alkenes and/or an alkenyl chain with at least 28 C, which is coupled to (b) at least one carboxylic acid, carboxylic acid deriv., carboxyanhydride, carboxyanhydride deriv., ester, and/or amide group. As **emulsifier** is preferred compds. of formula (I), where n .gtoreq. 4. The compns. may be used in night creams, sunscreens, etc.
- ST cosmetic sunscreen **emulsifier succinate** deriv
- IT Polyoxyalkylenes, biological studies
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (alkyl/**alkenylpolyisobutenylsuccinic** derivs.; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
Emulsifying agents
 Health products
 Sunscreens
 (cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
 (creams; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
 (**emulsions**; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
 (gels; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
 (lotions; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Drug delivery systems**
 (ointments; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT **Cosmetics**
 (sprays; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT 56-81-5DP, Glycerol, alkyl/**alkenylpolyisobutenylsuccinic** derivs. 100-37-8DP, Diethylethanolamine, alkyl/**alkenylpolyisobutenylsuccinic** derivs. 102-71-6DP, alkyl/**alkenylpolyisobutenylsuccinic** derivs. 108-30-5DP, **Succinic** anhydride, alkyl/**alkenylpolyisobutenyl** derivs. 112-35-6DP, Triethylene glycol monomethyl ether, alkyl/**alkenylpolyisobutenylsuccinic** derivs. 25322-68-3DP, Polyethylene glycol, alkyl/**alkenylpolyisobutenylsuccinic** derivs.
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic** acid)
- IT 100-37-8, Diethylethanolamine 102-71-6, Triethanolamine, biological studies 110-15-6D, **Succinic** acid, alkyl and

alkenyl derivs. 170211-20-8, Hostacerin dgi
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)

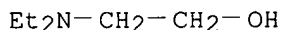
(cosmetic compns. comprising alkyl or alkenyl derivs. of
succinic acid)

IT 56-81-5DP, Glycerol, alkyl/**alkenylpolyisobutenylsuccinic**
 derivs. 100-37-8DP, Diethylethanolamine, alkyl/
alkenylpolyisobutenylsuccinic derivs. 102-71-6DP, alkyl/
alkenylpolyisobutenylsuccinic derivs. 108-30-5DP,
Succinic anhydride, alkyl/**alkenylpolyisobutenyl** derivs.
 112-35-6DP, Triethylene glycol monomethyl ether, alkyl/
alkenylpolyisobutenylsuccinic derivs. 25322-68-3DP,
 Polyethylene glycol, alkyl/**alkenylpolyisobutenylsuccinic** derivs.
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic compns. comprising alkyl or alkenyl derivs. of
succinic acid)

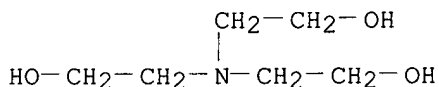
RN 56-81-5 HCAPLUS
 CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)



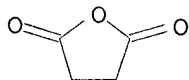
RN 100-37-8 HCAPLUS
 CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)



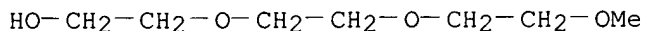
RN 102-71-6 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)



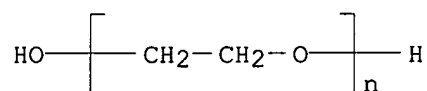
RN 108-30-5 HCAPLUS
 CN 2,5-Furandione, dihydro- (9CI) (CA INDEX NAME)



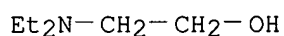
RN 112-35-6 HCAPLUS
 CN Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



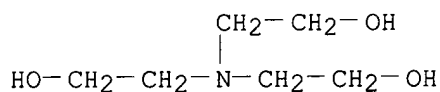
RN 25322-68-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



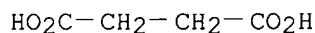
IT 100-37-8, Diethylethanolamine 102-71-6, Triethanolamine,
 biological studies 110-15-6D, Succinic acid, alkyl and
 alkenyl derivs. 170211-20-8, Hostacerin dgi
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (cosmetic comps. comprising alkyl or alkenyl derivs. of
 succinic acid)
 RN 100-37-8 HCAPLUS
 CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)



RN 102-71-6 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)



RN 110-15-6 HCAPLUS
 CN Butanedioic acid (9CI) (CA INDEX NAME)



RN 170211-20-8 HCAPLUS
 CN Isooctadecanoic acid, ester with oxybis[propanediol] (3:2) (9CI) (CA INDEX NAME)

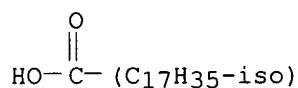
CM 1

CRN 59113-36-9
 CMF C6 H14 O5
 CCI IDS, MAN
 CDES 8:ID

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 30399-84-9
 CMF C18 H36 O2
 CCI IDS
 CDES 8:ID, ISO



L145 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:730528 HCAPLUS

DN 135:278003

TI Compositions and methods for **gene therapy**

IN Vogel, Jean-marie; Boschetti, Egisto

PA Biosphere Medical Inc., USA

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K009-00

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 8

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072280	A2	20011004	WO 2001-US9618	20010323 <--
	WO 2001072280	A3	20020131		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
PRAI	US 2000-191902P	P	20000324	<--	
AB	The present invention relates to injectable compns. comprising biocompatible, swellable, substantially hydrophilic, non-toxic and substantially spherical polymeric material carriers which are capable of efficiently delivering bioactive therapeutic factor(s) phys. linked to a transfection agent for use in embolization gene therapy. The present invention further relates to methods of embolization gene therapy, particularly for the treatment of angiogenic and non-angiogenic-dependent diseases, using the injectable compns.				
ST	embolization gene therapy delivery polymer carrier				
IT	Lymphoma (Burkitt's; compns. and methods for embolization gene therapy)				
IT	Bone, neoplasm (Ewing's sarcoma; compns. and methods for embolization gene therapy)				
IT	Sarcoma (Kaposi's; compns. and methods for embolization gene therapy)				
IT	Kidney, neoplasm (Wilms'; compns. and methods for embolization gene therapy)				
IT	Leukemia (acute lymphocytic; compns. and methods for embolization gene therapy)				
IT	Leukemia (acute myelogenous; compns. and methods for embolization gene therapy)				
IT	Angiogenic factors Growth inhibitors, animal RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (angiogenic growth-inhibiting factors; compns. and methods for embolization gene therapy)				
IT	Polyelectrolytes (anionic; compns. and methods for embolization gene therapy)				
IT	Intestine (anus, carcinoma; compns. and methods for embolization gene therapy)				
IT	Astrocyte (astrocytoma; compns. and methods for embolization gene therapy)				
IT	Bladder				
	Head				

Mammary gland
 Neck, anatomical
 Ovary, neoplasm
 Pancreas, neoplasm
 Prostate gland
 Testis
 (carcinoma; compns. and methods for embolization gene therapy)
 IT **Drug delivery systems**
 (carriers; compns. and methods for embolization gene therapy)
 IT Polyelectrolytes
 (cationic; compns. and methods for embolization gene therapy)
 IT Uterus, neoplasm
 (cervix, carcinoma; compns. and methods for embolization gene therapy)
 IT Leukemia
 (chronic myelocytic; compns. and methods for embolization gene therapy)
 IT Intestine, neoplasm
 (colorectal carcinoma; compns. and methods for embolization gene therapy)
 IT Angiogenesis
 Angiogenesis inhibitors
 Anti-inflammatory agents
 Antibacterial agents
 Antihistamines
 Antitumor agents
 Brain, neoplasm
Drug delivery systems
 Drug targeting
 Embolism
 Gene targeting
 Gene therapy
 Genetic vectors
 Hodgkin's disease
 Kidney, neoplasm
 Liver, neoplasm
 Melanoma
 Multiple myeloma
 Neoplasm
 Particle size distribution
 Saponification
 Surgery
 Swelling, physical
 Syringes
 Transformation, genetic
 (compns. and methods for embolization gene therapy)
 IT Antisense DNA
 Antisense RNA
 DNA
 Polyanhydrides
 Polynucleotides
 Polysaccharides, biological studies
 Polysiloxanes, biological studies
 Quaternary ammonium compounds, biological studies
 RNA
 Ribozymes
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (compns. and methods for embolization gene therapy)
 IT Imaging agents
 (contrast; compns. and methods for embolization gene therapy)
 IT Polyoxyalkylenes, biological studies
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(crosslinked; compns. and methods for embolization gene therapy)

IT Polymers, biological studies
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(crosslinked; compns. and methods for embolization gene therapy)

IT Lymphoma
(diffuse large cell; compns. and methods for embolization gene therapy)

IT Embolism
(embolization; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**
(emulsions; compns. and methods for embolization gene therapy)

IT Polymers, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(gene carriers; compns. and methods for embolization gene therapy)

IT Leukemia
(hairy-cell; compns. and methods for embolization gene therapy)

IT Ribozymes
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(hammerhead; compns. and methods for embolization gene therapy)

IT Liver, neoplasm
(hepatoma; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**
(implants; compns. and methods for embolization gene therapy)

IT Mitosis
(inhibitors; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**
(injections; compns. and methods for embolization gene therapy)

IT Polyesters, biological studies
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(lactic acid-based; compns. and methods for embolization gene therapy)

IT Lymphoma
(lymphoblastic; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**
(microparticles; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**
(microspheres; compns. and methods for embolization gene therapy)

IT Lymphoma
(non-Hodgkin's; compns. and methods for embolization gene therapy)

IT Lung, neoplasm
(non-small-cell carcinoma; compns. and methods for embolization gene therapy)

IT Bone, neoplasm
(osteosarcoma; compns. and methods for embolization gene therapy)

IT p53 (protein)
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(polynucleotide encoding; compns. and methods for embolization gene therapy)

IT Myoma
(rhabdomyosarcoma; compns. and methods for embolization gene therapy)

IT Lung, neoplasm
(small-cell carcinoma; compns. and methods for embolization gene therapy)

IT Animal tissue
(soft, sarcoma; compns. and methods for embolization gene therapy)

IT Neoplasm
(solid; compns. and methods for embolization gene therapy)

IT Polymers, biological studies

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(swellable; compns. and methods for embolization gene therapy)

IT 7439-89-6, Iron, uses 7439-95-4, Magnesium, uses 7440-09-7, potassium, uses 7440-23-5, Sodium, uses 7440-66-6, Zinc, uses 7440-70-2, Calcium, uses 7664-41-7, Ammonia, uses

RL: NUU (Other use, unclassified); USES (Uses)

(compns. and methods for embolization gene therapy)

IT 79-10-7D, **Acrylic** acid, esters 557-75-5D, Vinyl alcohol, copolymers 7446-81-3D, Sodium **acrylate**, polymers 9003-04-7, Sodium **polyacrylate** 24980-58-3, **Acrylic** acid-vinyl acetate copolymer 25969-89-5, Methyl maleate-vinyl acetate copolymer 107830-79-5, **Acrylonitrile** starch graft copolymer

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(compns. and methods for embolization gene therapy)

IT 71-44-3, Spermine 124-20-9, Spermidine 557-75-5D, Vinyl alcohol, polymers 2462-63-7, Dope 4004-05-1, Dope 9002-98-6, Polyethylenimine 9003-01-4D, **Polyacrylic** acid, derivs. 9003-05-8D, **Polyacrylamide**, derivs. 24937-78-8, Poly(ethylene vinyl acetate) 25104-18-1, Polylysine 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Poly(lactic acid) 26913-06-4, Polyethylenimine 38000-06-5, Polylysine 124050-77-7, Transfectam 124076-29-5 127528-05-6 128835-92-7, Lipofectin 137056-72-5, dc-chol 144189-73-1, Dotap 145310-87-8, Transfectace

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(compns. and methods for embolization gene therapy)

IT 110-26-9, Methylene bis-**acrylamide**

RL: RCT (Reactant); RACT (Reactant or reagent)

(compns. and methods for embolization gene therapy)

IT 98085-27-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(contrast agent; compns. and methods for embolization gene therapy)

IT 26426-80-2, **Isobutylene-maleic** anhydride copolymer

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); **THU (Therapeutic use)**; BIOL (Biological study); PROC (Process); USES (Uses)

(cross-linked; compns. and methods for embolization gene therapy)

IT 25322-68-3, Polyethylene oxide

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(crosslinked; compns. and methods for embolization gene therapy)

IT 97-90-5, Ethylene glycol **dimethacrylate** 109-17-1, Tetraethylene glycol **dimethacrylate** 2359-15-1, Methylene bis-**methacrylamide** 17831-71-9, Tetraethylene glycol **diacrylate** 26846-58-2, Pentaerythritol **dimethacrylate** 58477-85-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(crosslinking agent; compns. and methods for embolization gene therapy)

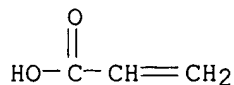
IT 79-10-7D, **Acrylic** acid, esters

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(compns. and methods for embolization gene therapy)

RN 79-10-7 HCAPLUS

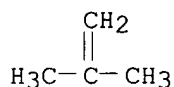
CN 2-Propenoic acid (9CI) (CA INDEX NAME)



IT 26426-80-2, Isobutylene-maleic anhydride
copolymer
RL: PEP (Physical, engineering or chemical process); POF (Polymer in
formulation); THU (Therapeutic use); BIOL (Biological study);
PROC (Process); USES (Uses)
(cross-linked; compns. and methods for embolization gene therapy)
RN 26426-80-2 HCAPLUS
CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

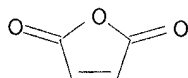
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CRN 115-11-7
CMF C4 H8

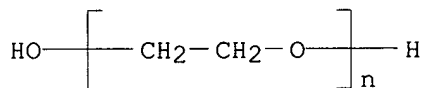


CM 2

CRN 108-31-6
CMF C4 H2 O3



IT 25322-68-3, Polyethylene oxide
RL: PEP (Physical, engineering or chemical process); POF (Polymer in
formulation); THU (Therapeutic use); BIOL (Biological study); PROC
(Process); USES (Uses)
(crosslinked; compns. and methods for embolization gene therapy)
RN 25322-68-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
NAME)



L145 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:152452 HCAPLUS

DN 134:183314

TI PEG compositions for reducing skin irritation and sting from weak
carboxylic acids

IN Mukherjee, Surajit; Rick, Donald; Habif, Stephan Samuel

PA Unilever PLC, UK; Unilever NV; Hindustan Lever Limited

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English
 IC ICM A61K007-48
 CC 62-4 (Essential Oils and Cosmetics)
 FAN.CNT 1

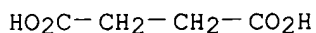
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001013877	A1	20010301	WO 2000-EP7303	20000731 <--
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PRAI	US 1999-150112P	P	19990820 <--		
AB	A method for reducing skin irritation and/or sting that may be caused by a weak carboxylic acid by adding polyethylene glycol (PEG). Addn. of PEG lowers irritation and sting without reducing the delivery of weak acids to skin tissues.				
ST	PEG carboxylic acid skin irritation; cosmetic carboxylic acid irritation PEG				
IT	Carboxylic acids, biological studies RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				
IT	Polyoxyalkylenes, biological studies RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				
IT	Cosmetics (emulsions; PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				
IT	Skin, disease (irritation; PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				
IT	50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, biological studies 64-19-7, Acetic acid, biological studies 69-72-7, Salicylic acid, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 110-15-6, Succinic acid, biological studies 300-85-6, .beta.-Hydroxybutyric acid 471-47-6, Oxamic acid 6915-15-7, Malic acid RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				
IT	25322-68-3, Peg RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)				

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

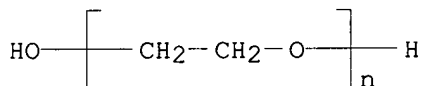
RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 1980, V004(069), PC-011
- (2) Epstein, H; US 5885593 A 1999 HCAPLUS
- (3) Mather, K; US 5925679 A 1999 HCAPLUS
- (4) Oota, A; JP 55035025 A 1980 HCAPLUS
- (5) Pathak, C; US 5879688 A 1999 HCAPLUS

(6) Quemin, E; US 5736567 A 1998 HCAPLUS
 (7) Unilever Plc; EP 0729745 A 1996 HCAPLUS
 (8) Unilever Plc; WO 9938488 A 1999 HCAPLUS
 (9) Vargas, A; US 5935584 A 1999 HCAPLUS
 (10) Woller, W; US 5320838 A 1994 HCAPLUS
 IT 110-15-6, Succinic acid, biological studies
 RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)
 RN 110-15-6 HCAPLUS
 CN Butanedioic acid (9CI) (CA INDEX NAME)



IT 25322-68-3, Peg
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)
 RN 25322-68-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L145 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:113123 HCAPLUS

DN 132:156518

TI Derivatized polymers of .alpha.-olefin-maleic anhydride alkyl half-ester or full acid for hair sprays

IN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.; Foltis, Linda C.; Blaine, April

PA ISP Investments Inc., USA

SO U.S., 5 pp., Cont.-in-part of U.S. 5,869,695.

CODEN: USXXAM

DT Patent

LA English

IC ICM C10M133-16

ICS C07D207-40

NCL 548545000

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 6025501	A	20000215	US 1998-103856	19980624	<--
	US 5869695	A	19990209	US 1997-845669	19970425	<--
	WO 9849143	A1	19981105	WO 1998-US4240	19980304	<--
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,				

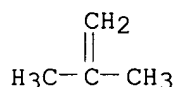
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
GA, GN, ML, MR, NE, SN, TD, TG
WO 9967216 A1 19991229 WO 1999-US9430 19990429 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 9937749 A1 20000110 AU 1999-37749 19990429 <--
EP 1098877 A1 20010516 EP 1999-920192 19990429 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
JP 2002518554 T2 20020625 JP 2000-555870 19990429 <--
PRAI US 1997-845669 A2 19970425 <--
WO 1998-US4240 W 19980304 <--
US 1998-103386 A 19980624 <--
US 1998-103856 A 19980624 <--
US 1998-104309 A 19980624 <--
WO 1999-US9430 W 19990429 <--
AB Derivatized polymers of .alpha.-olefin-**maleic** anhydride alkyl
half-ester or full acid, preferably the **isobutylene** compd.,
optionally with repeat units of maleamic acid and/or its corresponding
maleimide therein are described. These polymers are useful as fixatives
in personal care products, such as hair spray compns., particularly as
one-phase, low VOC formulations in pump and aerosol systems, and in
anhyd., alc., aq.-alc. and in high hydrocarbon tolerant solvent
formulations. In use, these hair spray compns. dry down to form clear,
continuous and defectless films. Poly(**isobutylene-**
maleic anhydride) (I) was prepd. by the copolymn. of
isobutylene with **maleic** anhydride. A hydroalcoholic
aerosol hair spray contained SD alc. 40B 200 52.50, imidized I 12.50 (40%
solids, 27% H2O, 33% EtOH) di-Me ether 35.00, and resin solids 5%.
ST hair spray olefin **maleic** anhydride polymer
IT Hair preparations
(sprays; derivatized polymers of olefin-**maleic** anhydride
alkyl half-ester or full acid for hair sprays)
IT Alkenes, biological studies
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(.alpha.-, copolymers with **maleic** anhydride; derivatized
polymers of olefin-**maleic** anhydride alkyl half-ester or full
acid for hair sprays)
IT 108-31-6DP, **Maleic** anhydride, copolymers with .alpha.-olefins
26426-80-2P, Isobutylene-maleic anhydride
copolymer
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(derivatized polymers of olefin-**maleic** anhydride alkyl
half-ester or full acid for hair sprays)
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Ulmer; US 5869695 1999 HCAPLUS
(2) Ulmer; US 5886194 1999 HCAPLUS
IT **26426-80-2P, Isobutylene-maleic** anhydride
copolymer
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(derivatized polymers of olefin-**maleic** anhydride alkyl
half-ester or full acid for hair sprays)
RN 26426-80-2 HCAPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

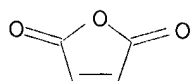
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



L145 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:819348 HCAPLUS

DN 132:54590

TI Derivatized polymers of .alpha.-olefin-maleic anhydride for
cosmetic formulationsIN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.; Foltis, Linda C.;
Blaine, April

PA Isp Investments Inc., USA

SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D207-40

ICS A61K007-06; A61K031-74

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 37

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9967216	A1	19991229	WO 1999-US9430	19990429 <--
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 5886194	A	19990323	US 1998-103386	19980624 <--
	US 5959122	A	19990928	US 1998-104309	19980624 <--
	US 6025501	A	20000215	US 1998-103856	19980624 <--
	AU 9937749	A1	20000110	AU 1999-37749	19990429 <--
	EP 1098877	A1	20010516	EP 1999-920192	19990429 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2002518554	T2	20020625	JP 2000-555870	19990429 <--
PRAI	US 1998-103386	A	19980624	<--	

US 1998-103856 A 19980624 <--
 US 1998-104309 A 19980624 <--
 US 1997-845669 A2 19970304 <--
 WO 1998-US4240 W 19980304 <--
 WO 1999-US9430 W 19990429 <--

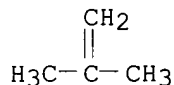
- AB Derivatized polymers of .alpha.-olefin-**maleic** anhydride alkyl half-ester or full acid, preferably the **isobutylene** compd., optionally with repeat units of maleamic acid and/or its corresponding maleimide are described. These polymers are useful as fixatives in personal care products, such as hair spray compns., particularly as 1-phase, low VOC formulations in pump and aerosol systems, and in anhyd., alc., aq.-alc. and in high hydrocarbon tolerant solvent formulations. These hair spray compns. dry down to form clear, continuous and defectless films. **Maleic** anhydride was mixed with decanoyl peroxide as initiator, octadecyl vinyl ether as suspending agent and pentane as solvent in a sealed reactor under N. The reactor was heated to 80.degree. over a 30-min period. At 80.degree., **isobutylene** monomer was fed into the reactor over a 4-h period. The resultant product was a finely divided, off-white slurry of poly(**isobutylene-maleic** anhydride) copolymer in pentane. The above polymer was allowed to with octadecylamine in EtOH at 50-100.degree.. On cooling, the polymer had an acid no. of 225 mg KOH/g polymer. A single-phase hydroalc. aerosol hair spray formulation contained anhyd. alc. 52.50, the above polymer (40% solids, 27% H2O, and 33% EtOH) 12.50, and di-Me ether 35.00%.
- ST **isobutylene maleic** anhydride copolymer hair spray
 prepn; amine **isobutylene maleic** anhydride copolymer
 spray prepn
- IT **Cosmetics**
 (derivatized polymers of .alpha.-olefin-**maleic** anhydride for
 cosmetic formulations)
- IT Hair preparations
 (gels; derivatized polymers of .alpha.-olefin-**maleic**
 anhydride for cosmetic formulations)
- IT Hair preparations
 (mousses; derivatized polymers of .alpha.-olefin-**maleic**
 anhydride for cosmetic formulations)
- IT Amines, biological studies
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (reaction products, with poly(**isobutylene-co-maleic**
 anhydride); derivatized polymers of .alpha.-olefin-**maleic**
 anhydride for cosmetic formulations)
- IT Hair preparations
 (sprays; derivatized polymers of .alpha.-olefin-**maleic**
 anhydride for cosmetic formulations)
- IT 75-04-7DP, Ethylamine, reaction products with poly(**isobutylene**
 -co-**maleic** anhydride) 104-75-6DP, 2-Ethylhexylamine, reaction
 products with poly(**isobutylene-co-maleic** anhydride)
 109-73-9DP, n-Butylamine, reaction products with poly(**isobutylene**
 -co-**maleic** anhydride) 111-86-4DP, n-Octylamine, reaction
 products with poly(**isobutylene-co-maleic** anhydride)
 124-22-1DP, n-Dodecylamine, reaction products with poly(
isobutylene-co-maleic anhydride) 124-30-1DP,
 n-Octadecylamine, reaction products with poly(**isobutylene-co-**
maleic anhydride) 141-43-5DP, Ethanolamine, reaction products
 with poly(**isobutylene-co-maleic** anhydride)
 156-87-6DP, 3-Amino-1-propanol, reaction products with poly(
isobutylene-co-maleic anhydride) **26426-80-2DP**,
Isobutylene-maleic anhydride copolymer, reaction
 products with primary amines
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (derivatized polymers of .alpha.-olefin-**maleic** anhydride for

cosmetic formulations)
 IT 26426-80-2P, Isobutylene-maleic anhydride
 copolymer
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for
 cosmetic formulations)
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Ulmer; US 5886194 A 1999 HCAPLUS
 IT 26426-80-2DP, Isobutylene-maleic anhydride
 copolymer, reaction products with primary amines
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for
 cosmetic formulations)
 RN 26426-80-2 HCAPLUS
 CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

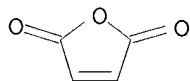
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3

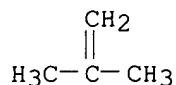


IT 26426-80-2P, Isobutylene-maleic anhydride
 copolymer
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for
 cosmetic formulations)
 RN 26426-80-2 HCAPLUS
 CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

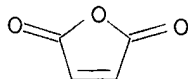
CM 1

CRN 115-11-7

CMF C4 H8



CM 2

CRN 108-31-6
CMF C4 H2 O3

L145 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:215549 HCAPLUS

DN 130:242122

TI Hydroxyamino-derivatized polymers of **olefin-maleic**
anhydride

IN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.

PA ISP Investments Inc., USA

SO U.S., 5 pp., Cont.-in-part of U.S. 845,669.

CODEN: USXXAM

DT Patent

LA English

IC C10M133-16; C07D207-40

NCL 548545000

CC 62-1 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 35

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 5886194	A	19990323	US 1998-103386	19980624	<--
	US 5869695	A	19990209	US 1997-845669	19970425	<--
	WO 9967216	A1	19991229	WO 1999-US9430	19990429	<--
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9937749	A1	20000110	AU 1999-37749	19990429	<--
	EP 1098877	A1	20010516	EP 1999-920192	19990429	<--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002518554	T2	20020625	JP 2000-555870	19990429	<--
PRAI	US 1997-845669	A2	19970304			<--
	US 1998-103386	A	19980624			<--
	US 1998-103856	A	19980624			<--
	US 1998-104309	A	19980624			<--
	WO 1999-US9430	W	19990429			<--
AB	This invention describes hydroxyamino-derivatized polymers of .alpha.-olefin-maleic anhydride in the form of their maleimide, maleamic acid and .alpha.-olefin-maleic anhydride half-acid/half ester or full acid repeat units process for making same. The polymers are made by reacting an .alpha.-olefin-maleic anhydride, half-acid/half-ester or full acid with a hydroxy contg. .alpha.-unsubstituted primary amine in aq. or aq. alc. soln. at a temp. of about 60.degree.-160.degree. C. during a reaction period of about 1-25 h. Isobutylene-maleic anhydride copolymers was treated with N-butylamine and ethanolamine in EtOH to give a polymer with a predominance of maleimide repeating units over maleamic acid units.					
ST	olefin maleic anhydride polymer hydroxyamino					

IT **Cosmetics**
 (hydroxyamino-derivatized polymers of olefin-maleic anhydride)

IT 75-04-7DP, Ethylamine, reaction products with **isobutylene-maleic** anhydride copolymer 109-73-9DP, n-Butylamine, reaction products with **isobutylene-maleic** anhydride copolymer 124-22-1DP, Dodecylamine, reaction products with **isobutylene-maleic** anhydride copolymer 141-43-5DP, Ethanolamine, reaction products with **isobutylene-maleic** anhydride copolymer 156-87-6DP, 3-Amino-1-propanol, reaction products with **isobutylene-maleic** anhydride copolymer **26426-80-2DP**, **Isobutylene-maleic** anhydride copolymer, aminolyzed 68335-16-0DP, aminolyzed
 RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hydroxyamino-derivatized polymers of olefin-maleic anhydride)

RE.CNT 1 . THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
 (1) Gutierrez; US 4839072 1989 HCAPLUS

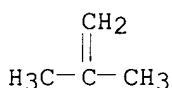
IT **26426-80-2DP, Isobutylene-maleic** anhydride copolymer, aminolyzed
 RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hydroxyamino-derivatized polymers of olefin-maleic anhydride)

RN 26426-80-2 HCAPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

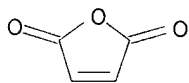
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 108-31-6
 CMF C4 H2 O3



L145 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:531618 HCAPLUS

DN 129:293780

TI Drug release from intelligent poly(methacrylic acid)-l-**polyisobutylene** polyelectrolyte amphiphilic **conetworks**

AU Janecska, Akos; Ivan, Bela

CS Institute of Chemistry, Chemical Research Center of the Hungarian Academy of Sciences, Pusztaszeri, H-1525, Hung.

SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1998), 39(2), 208-209

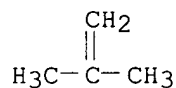
CODEN: ACPPAY; ISSN: 0032-3934

PB American Chemical Society, Division of Polymer Chemistry
 DT Journal
 LA English
 CC 63-5 (Pharmaceuticals)
 AB Poly(**methacrylic acid**)-linked-**polyisobutylene**
 amphiphilic polyelectrolyte conetworks were prepd. Sustained drug release
 was obsd. with theophylline with a sample contg. 50%
polyisobutylene.
 ST sustained drug release **polymethacrylic acid**
polyisobutylene
 IT Dissolution rate
 Polyelectrolytes
 (drug release from intelligent poly(**methacrylic acid**)-linked-
polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT **Drug delivery systems**
 (sustained-release; drug release from intelligent poly(
methacrylic acid)-linked-**polyisobutylene**
 polyelectrolyte amphiphilic conetworks)
 IT **54406-39-2P**, 1-Propene, 2-methyl-, polymer with
 2-methyl-2-propenoic acid
 RL: PRP (Properties); SPN (Synthetic preparation); **THU (Therapeutic**
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug release from intelligent poly(**methacrylic acid**)-linked-
polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT 58-55-9, Theophylline, biological studies
 RL: PRP (Properties); **THU (Therapeutic use)**; BIOL (Biological study); USES
 (Uses)
 (drug release from intelligent poly(**methacrylic acid**)-linked-
polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT **54406-39-2P**, 1-Propene, 2-methyl-, polymer with
 2-methyl-2-propenoic acid
 RL: PRP (Properties); SPN (Synthetic preparation); **THU (Therapeutic**
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug release from intelligent poly(**methacrylic acid**)-linked-
polyisobutylene polyelectrolyte amphiphilic conetworks)
 RN 54406-39-2 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene (9CI) (CA
 INDEX NAME)

CM 1

CRN 115-11-7

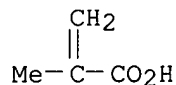
CMF C4 H8



CM 2

CRN 79-41-4

CMF C4 H6 O2



L145 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:188933 HCAPLUS

DN 124:233491

TI **Modified maleic** acid copolymers and their use as drug carrier

IN Waki, Kazunori; Shiino, Taijiro; Sakurai, Yasuhisa; Okano, Mitsuo; Kataoka, Kazunori; Koyama, Yoshuki; Ishihara, Shoji

PA Nippon Oils & Fats Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F008-32

ICS A61K047-32; C08F022-06

CC 35-8 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 63

FAN.CNT 1

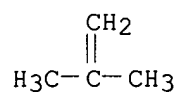
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07330824	A2	19951219	JP 1994-133291	19940615 <--
AB	Random copolymers of maleic anhydride and other vinyl monomers having a maleic acid/vinyl monomer ratio of 1:0.01 to 1:100 are modified with a functional group contg. fluoroalkylphenylboric acid through amide linkages. The modified polymers have mol. wt. 1,000-1,000,000 and are designed as drug carrier for gastrointestinal drugs. One such polymer was synthesized by polymg. maleic anhydride (0.1 mol) and N-vinylpyrrolidone (0.1 mol) followed by reacting the polymer with 3-aminoacetyl amino-6-heptafluoropropylphenylboric acid; adhesion property of the polymer to intestinal tissue was tested.				
ST	maleic acid vinyl polymer modification; phenylboric acid fluoro maleic polymer; pharmaceutical drug carrier intestinal				
IT	Pharmaceuticals (gastrointestinal drugs contg. modified maleic acid copolymers as drug carrier)				
IT	Pharmaceutical dosage forms (carriers, modified maleic acid copolymers and their use as drug carrier)				
IT	9011-07-8DP, Maleic anhydride-vinyl acetate copolymer, reaction products 9011-13-6DP, Maleic anhydride-styrene copolymer, reaction products 26426-80-2DP, Isobutene-maleic anhydride copolymer, reaction products 62849-65-4DP, Maleic anhydride-N-vinylpyrrolidone copolymer, reaction products 174778-59-7DP, reaction products with maleic acid copolymers 174778-60-0DP, reaction products with maleic acid copolymers 174778-61-1DP, reaction products with maleic acid copolymers RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (modified maleic acid copolymers and their use as drug carrier)				
IT	9011-07-8P, Maleic anhydride-vinyl acetate copolymer 9011-13-6P, Maleic anhydride-styrene copolymer 26426-80-2P, Isobutene-maleic anhydride copolymer 62849-65-4P, Maleic anhydride-N-vinylpyrrolidone copolymer RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of modified maleic acid copolymers)				
IT	26426-80-2DP, Isobutene-maleic anhydride copolymer, reaction products RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (modified maleic acid copolymers and their use as drug carrier)				

carrier)
RN 26426-80-2 HCAPLUS
CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

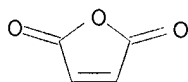
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CM 2

CRN 108-31-6

CMF C4 H2 O3

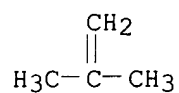


IT 26426-80-2P, Isobutene-maleic anhydride
copolymer
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. of modified maleic acid copolymers)
RN 26426-80-2 HCAPLUS
CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

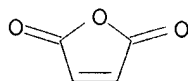
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



L145 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 1995:693749 HCAPLUS
DN 123:92943
TI Transparent gel-type perfume compositions containing isobutylene

-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and water

IN Taniguchi, Yasuo; Kuriki, Yoshihiro; Myawaki, Hideaki

PA Taiyo Koryo Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-46

ICA A61L009-01

CC 62-5 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07126137	A2	19950516	JP 1993-275797	19931104 <--
AB	The title perfume compns. contain isobutylene-maleic anhydride copolymer ammonium salt 1.0-15.0, polyamines 0.01-3.0, oxalate esters 0.1-10.0, perfumes 0.01-15.0, and H2O .gtoreq.40.0 wt.%. The compns. inhibited NH3 generation and did not show color changes after prolonged storage. A perfume compn. was formulated from H2O 72.7, Isobam A 6.0, C-2 (polyamine) 0.3, polyoxyethylene nonylphenyl ether 8.0, 3-methyl-3-methoxybutanol 5.0, and di-Et oxalate 3.0 g.				
ST	perfume isobutylene maleic anhydride copolymer; polyamine oxalate polymer perfume gel				
IT	Perfumes (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H2O)				
IT	Amines, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (poly-, transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H2O)				
IT	95-92-1, Diethyl oxalate 2050-60-4, Dibutyl oxalate 52032-17-4, Isobutylene-maleic anhydride copolymer ammonium salt RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H2O)				
IT	52032-17-4, Isobutylene-maleic anhydride copolymer ammonium salt RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H2O)				
RN	52032-17-4 HCAPLUS				
CN	2,5-Furandione, polymer with 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)				

CM 1

CRN 26426-80-2

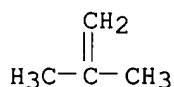
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CCI PMS

CM 2

CRN 115-11-7

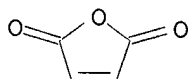
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



L145 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:517312 HCAPLUS

DN 121:117312

TI Cosmetic composition containing **succinic** acid esters

IN Rawlings, Anthony Vincent; Rossall, Brian

PA Unilever PLC, UK; Unilever N. V.

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-48

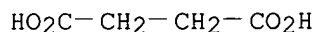
ICS A61K007-06

CC 62-1 (Essential Oils and **Cosmetics**)

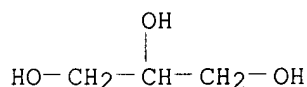
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410971	A1	19940526	WO 1993-EP3095	19931104 <--
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	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9454640	A1	19940608	AU 1994-54640	19931104 <--
PRAI	GB 1992-23578		19921111	<--	
	WO 1993-EP3095		19931104	<--	
AB	A compn. for topical application to skin, hair or nails comprises: (i) an effective amt. of a succinic acid ester having a lipid-like structure, (ii) a cosmetically acceptable vehicle. A skin lotion contained the succinic acid ester [C22H43OC(O)CH(CH:CHC14H29)CH2C(O)(OC2H4)4-5EOOH] 0.08, EtOH 10, perfume 0.5, and water to 100% wt./wt.				
ST	succinate ester cosmetic				
IT	Surfactants				
	Ceramides				
	Siloxanes and Silicones, biological studies				
	RL: BIOL (Biological study)				
	(cosmetic compns. contg. succinic acid esters and)				
IT	Nail (anatomical)				
	(cosmetics for, succinic acid esters for)				
IT	Cosmetics				
	Hair preparations				
	(succinic acid esters for)				
IT	Cosmetics				
	(creams, succinic acid esters for)				
IT	Cosmetics				

(emulsions, succinic acid esters for)
 IT **Cosmetics**
 (liposomes, succinic acid esters for)
 IT **Cosmetics**
 (lotions, succinic acid esters for)
 IT Sunburn and Suntan
 (suntanning agents, succinic acid esters for)
 IT **110-15-6D**, Butanedioic acid, esters 153311-81-0 153311-82-1
 156944-61-5 156944-62-6 156944-63-7
 RL: BIOL (Biological study)
 (cosmetic compns. contg.)
 IT **56-81-5D**, 1,2,3-Propanetriol, ethers 111-01-3, Squalane
 111-02-4, Squalene
 RL: BIOL (Biological study)
 (cosmetic compns. contg. succinic acid esters and)
 IT **110-15-6D**, Butanedioic acid, esters
 RL: BIOL (Biological study)
 (cosmetic compns. contg.)
 RN 110-15-6 HCAPLUS
 CN Butanedioic acid (9CI) (CA INDEX NAME)



IT **56-81-5D**, 1,2,3-Propanetriol, ethers
 RL: BIOL (Biological study)
 (cosmetic compns. contg. succinic acid esters and)
 RN 56-81-5 HCAPLUS
 CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)



L145 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2002 ACS
 AN 1990:223161 HCAPLUS
 DN 112:223161
 TI Aqueous gelation agents containing **olefin-maleic**
 anhydride copolymer and gelatins
 IN Sajima, Masaaki; Akimoto, Shinichi
 PA Nippon Oils and Fats Co., Ltd., Japan; Sairando Koryo Y. K.
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C09K003-00
 ICS A61K007-00; A61K007-02; A61L009-01
 CC **62-5** (Essential Oils and **Cosmetics**)
 Section cross-reference(s): 5, 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01297484	A2	19891130	JP 1988-126935	19880526 <--
AB	An aq. gelation agent consists of reaction products of olefin- maleic anhyd. copolymer with gelatins or collagens. The gel is uniform even in the presence of water-insol. compds. or strongly hydrophilic surfactants. The gel may be used in manufg. air fresheners, pet repellents, detergents, etc. Thus, 4.5 g gelatin (mol. wt. 55,000-100,000) and 0.5 g sugar were mixed with 75g H2O at pH 7.0,				

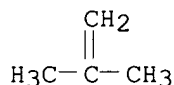
dissolved at 60-70.degree., and cooled to 40.degree.. To this mixt. was added 20g aq. soln. consisting of a floral perfume 6.0, 4-nonanylphenylpoly(oxyethylene) ether 4.0, **isobutylene-maleic** anhyd. copolymer 0.8, EtOH 2.0, propylene glycol 0.2, water 7.0 g to give an air freshener gel.

- ST gel gelatin collagen polymer; air freshener gel polymer; agrochem gel polymer; detergent gel polymer
- IT Detergents
Repellents
(manuf. of, gelation agents for)
- IT Alkenes, polymers
RL: BIOL (Biological study)
(with **maleic** anhydride, reaction products of gelatins and, as gelation agents)
- IT Deodorants
(air fresheners, manuf. of, gelation agents for)
- IT Collagens, compounds
Gelatins, compounds
RL: PREP (Preparation)
(reaction products, with **maleic** anhydride-olefin copolymer, prepn. of, as gelation agents)
- IT 108-31-6DP, 2,5-Furandione, polymers with olefins, reaction products with gelatins or collagens **26426-80-2DP, Isobutylene-maleic** anhydride copolymer, reaction products with gelatins
RL: PREP (Preparation)
(prepn. of, as gelation agents)
- IT **26426-80-2DP, Isobutylene-maleic** anhydride copolymer, reaction products with gelatins
RL: PREP (Preparation)
(prepn. of, as gelation agents)
- RN 26426-80-2 HCAPLUS
- CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

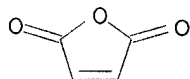
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



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DICTIONARY FILE UPDATES: 28 AUG 2002 HIGHEST RN 445373-06-8

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TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L19 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS

RN 110-15-6 REGISTRY

CN Butanedioic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

✓ CN Succinic acid (8CI)

OTHER NAMES:

CN 1,2-Ethanedicarboxylic acid

CN 1,4-Butanedioic acid

CN A 12084

CN Amber acid

CN Asuccin

CN Dihydrofumaric acid

CN Katasuccin

CN Wormwood acid

FS 3D CONCORD

MF C4 H6 O4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIOGENES,
DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2,
GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO,
SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

HO₂C-CH₂-CH₂-CO₂H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17534 REFERENCES IN FILE CA (1967 TO DATE)

1987 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

17544 REFERENCES IN FILE CAPLUS (1967 TO DATE)

9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:146186

REFERENCE 2: 137:145609

REFERENCE 3: 137:145608

REFERENCE 6: 137:140338
REFERENCE 7: 137:127371
REFERENCE 8: 137:127263
REFERENCE 9: 137:126814
REFERENCE 10: 137:126794

L18 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 115-07-1 REGISTRY

CN 1-Propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propene (8CI)

OTHER NAMES:

CN 1-Propylene

CN Methylethylene

CN **Propylene**

CN R 1270

FS 3D CONCORD

DR 676-63-1, 33004-01-2

MF C3 H6

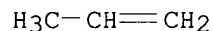
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LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2306 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

29749 REFERENCES IN FILE CAPLUS (1967 TO DATE)

28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:149446
REFERENCE 2: 137:148864
REFERENCE 3: 137:147680
REFERENCE 4: 137:147104
REFERENCE 5: 137:146124
REFERENCE 6: 137:145957
REFERENCE 7: 137:145706
REFERENCE 8: 137:144535

REFERENCE 9: 137:144363

REFERENCE 10: 137:144222

L18 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 74-85-1 REGISTRY

CN Ethene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Ethylene (8CI)**

OTHER NAMES:

CN Acetene

CN Bicarburretted hydrogen

CN Elayl

CN Olefiant gas

FS 3D CONCORD

DR 87701-64-2, 87701-65-3, 33060-30-9

MF C2 H4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIOGENES, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

$\text{H}_2\text{C}=\text{CH}_2$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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10847 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

64793 REFERENCES IN FILE CAPLUS (1967 TO DATE)

22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148864

REFERENCE 2: 137:147737

REFERENCE 3: 137:147705

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REFERENCE 5: 137:147331

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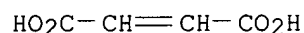
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REFERENCE 10: 137:145706

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L24 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2002 ACS
RN 6915-18-0 REGISTRY
CN 2-Butenedioic acid (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Butenedioic acid (8CI)
OTHER NAMES:
CN 1,2-Ethenedicarboxylic acid
CN 1,2-Ethylenedicarboxylic acid
FS 3D CONCORD
MF C4 H4 O4
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
CHEMINFORMRX, CIN, DETHERM*, GMELIN*, IFICDB, IFIUDB, PROMT, TOXCENTER,
USPATFULL
(*File contains numerically searchable property data)



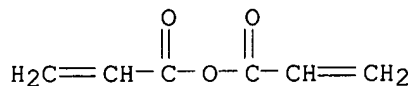
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28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
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REFERENCE 2: 136:344841
REFERENCE 3: 136:316756
REFERENCE 4: 136:286525
REFERENCE 5: 136:153739
REFERENCE 6: 135:312681
REFERENCE 7: 135:89841
REFERENCE 8: 135:61378
REFERENCE 9: 134:344960
REFERENCE 10: 134:27004

L24 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2002 ACS
RN 2051-76-5 REGISTRY
CN 2-Propenoic acid, anhydride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Acrylic anhydride (6CI, 7CI, 8CI)**
OTHER NAMES:
CN Acrylic acid anhydride
FS 3D CONCORD
MF C6 H6 O3
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS,
PDLCOM*, PIRA, PROMT, TOXCENTER, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 175 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:35400
 REFERENCE 2: 137:33092
 REFERENCE 3: 136:102188
 REFERENCE 4: 136:86136
 REFERENCE 5: 135:137827
 REFERENCE 6: 135:137826
 REFERENCE 7: 135:34315
 REFERENCE 8: 134:331675
 REFERENCE 9: 134:331674
 REFERENCE 10: 134:310748

L24 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 760-93-0 REGISTRY

CN 2-Propenoic acid, 2-methyl-, anhydride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Methacrylic anhydride (6CI, 8CI)**

OTHER NAMES:

CN Methacrylic acid anhydride

CN Methacryloyl anhydride

FS 3D CONCORD

MF C8 H10 O3

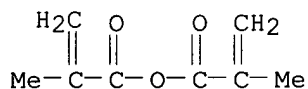
CI COM

LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

433 REFERENCES IN FILE CA (1967 TO DATE)
67 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
436 REFERENCES IN FILE CAPLUS (1967 TO DATE)
25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:140871
REFERENCE 2: 137:94169
REFERENCE 3: 137:79391
REFERENCE 4: 137:58577
REFERENCE 5: 137:54621
REFERENCE 6: 137:48172
REFERENCE 7: 137:39324
REFERENCE 8: 137:34038
REFERENCE 9: 137:33593
REFERENCE 10: 137:33092

L24 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 110-17-8 REGISTRY

CN 2-Butenedioic acid (2E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Butenedioic acid (E)-

CN Fumaric acid (8CI)

OTHER NAMES:

CN (E)-2-Butenedioic acid

CN 2-(E)-Butenedioic acid

CN 2-Butenedioic acid, (E)-

CN Allomaleic acid

CN Boletic acid

CN FC 33

CN Lichenic acid

CN trans-1,2-Ethylenedicarboxylic acid

CN trans-2-Butenedioic acid

CN trans-Butenedioic acid

FS STEREOSEARCH

MF C4 H4 O4

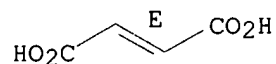
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8232 REFERENCES IN FILE CA (1967 TO DATE)
1324 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8237 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148701
REFERENCE 2: 137:145649
REFERENCE 3: 137:145609
REFERENCE 4: 137:145608
REFERENCE 5: 137:145594
REFERENCE 6: 137:145226
REFERENCE 7: 137:145190
REFERENCE 8: 137:145140
REFERENCE 9: 137:145134
REFERENCE 10: 137:140668

L24 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN **110-16-7** REGISTRY

CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Butenedioic acid (Z)-

CN Maleic acid (8CI)

OTHER NAMES:

CN 2-Butenedioic acid, (Z)-

CN cis-1,2-Ethylenedicarboxylic acid

CN cis-2-Butenedioic acid

CN cis-Butenedioic acid

CN Maleinic acid

CN Malezid CM

CN Scotchbond Multipurpose Etchant

CN Toxilic acid

FS STEREOSEARCH

MF C4 H4 O4

CI COM

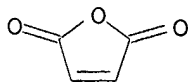
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25041 REFERENCES IN FILE CA (1967 TO DATE)
 11643 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 25056 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:145661
 REFERENCE 2: 137:142222
 REFERENCE 3: 137:142196
 REFERENCE 4: 137:142062
 REFERENCE 5: 137:141927
 REFERENCE 6: 137:141718
 REFERENCE 7: 137:141712
 REFERENCE 8: 137:141649
 REFERENCE 9: 137:141584
 REFERENCE 10: 137:141572

L24 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 79-41-4 REGISTRY

CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Methacrylic acid (8CI)

OTHER NAMES:

CN .alpha.-Methacrylic acid

CN .alpha.-Methylacrylic acid

CN 2-Methyl-2-propenoic acid

CN 2-Methylacrylic acid

CN GE 110

CN Loctite 3298

CN Methylacrylic acid

FS 3D CONCORD

MF C4 H6 O2

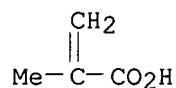
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIADB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14684 REFERENCES IN FILE CA (1967 TO DATE)
8241 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14701 REFERENCES IN FILE CAPLUS (1967 TO DATE)
11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148869
REFERENCE 2: 137:147435
REFERENCE 3: 137:146124
REFERENCE 4: 137:145628
REFERENCE 5: 137:145573
REFERENCE 6: 137:145197
REFERENCE 7: 137:145182
REFERENCE 8: 137:141937
REFERENCE 9: 137:141546
REFERENCE 10: 137:141446

L24 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 79-10-7 REGISTRY

CN 2-Propenoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acrylic acid (6CI, 7CI, 8CI)

OTHER NAMES:

CN Acroleic acid

CN Ethylenecarboxylic acid

CN Propenoic acid

CN Vinylformic acid

FS 3D CONCORD

DR 55927-87-2

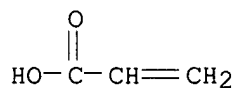
MF C3 H4 O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(*Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25196 REFERENCES IN FILE CA (1967 TO DATE)
 15696 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 25228 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147759
 REFERENCE 2: 137:147757
 REFERENCE 3: 137:147435
 REFERENCE 4: 137:146124
 REFERENCE 5: 137:145647
 REFERENCE 6: 137:145573
 REFERENCE 7: 137:145212
 REFERENCE 8: 137:145210
 REFERENCE 9: 137:145202
 REFERENCE 10: 137:145197

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L30 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 25322-68-3 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN .alpha.,.omega.-Hydroxypoly(ethylene oxide)
 CN .alpha.-Hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 CN .alpha.-Hydro-.omega.-hydroxypoly(oxyethylene)
 CN 1,2-Ethanediol, homopolymer
 CN 16600
 CN 1660S
 CN Alkox
 CN Alkox E 100
 CN Alkox E 130
 CN Alkox E 160
 CN Alkox E 240
 CN Alkox E 30
 CN Alkox E 45
 CN Alkox E 60
 CN Alkox E 75
 CN Alkox R 1000
 CN Alkox R 15
 CN Alkox R 150
 CN Alkox R 400
 CN Alkox SR
 CN Antarox E 4000
 CN Aquacide III

CN Aquaffin
 CN Badimol
 CN BDH 301
 CN Bradsyn PEG
 CN Breox 2000
 CN Breox 20M
 CN Breox 4000
 CN Breox 550
 CN Breox PEG 300
 CN CAFO 154
 CN Carbowax
 CN Carbowax 100
 CN Carbowax 1000
 CN Carbowax 1350
 CN Carbowax 14000
 CN Carbowax 1500
 CN Carbowax 1540
 CN Carbowax 20
 CN Carbowax 200
 CN Carbowax 20000
 CN Carbowax 25000
 CN Carbowax 300
 CN Carbowax 3350
 CN Carbowax 400
 CN Carbowax 4000
 CN Carbowax 4500
 CN Carbowax 4600
 CN Carbowax 600

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

AR 9002-90-8
 DR 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4, 54510-95-1,
 125223-68-9, 54847-64-2, 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6,
 25104-58-9, 25609-81-8, 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7,
 112895-21-3, 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4,
 61840-14-0, 37361-15-2, 112384-37-9, 70926-57-7, 75285-02-8, 75285-03-9,
 77986-38-0, 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0,
 85945-29-5, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4, 116549-90-7,
 156948-19-5, 169046-53-1, 188364-77-4, 188924-03-0, 189154-62-9,
 191743-71-2, 201163-43-1, 206357-86-0, 221638-71-7, 225502-44-3,
 270910-26-4, 307928-07-0, 356055-70-4, 391229-98-4

MF (C2 H4 O)_n H2 O

CI PMS, COM

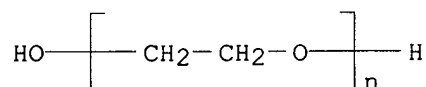
PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
 DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN,
 USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



62515 REFERENCES IN FILE CA (1967 TO DATE)

16773 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

REFERENCE 4: 137:109056

REFERENCE 5: 137:95349

REFERENCE 6: 137:68054

REFERENCE 7: 137:65540

REFERENCE 8: 137:65393

REFERENCE 9: 137:63573

REFERENCE 10: 137:63248

L30 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 102-71-6 REGISTRY

CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanol, 2,2',2''-nitrilotri- (8CI)

OTHER NAMES:

CN 2,2',2''-Nitrilotriethanol

CN 2,2',2''-Nitrilotris[ethanol]

CN Alkanolamine 244

CN Biafine

CN Daltogen

CN Nitrilotriethanol

CN Sterolamide

CN Sting-Kill

CN TEA

CN TEA (amino alcohol)

CN TEOA

CN Triethanolamin

CN Triethanolamine

CN Tris(.beta.-hydroxyethyl)amine

CN Tris(2-hydroxyethyl)amine

CN tris-(2-Hydroxyethyl)amine

CN Trolamine

FS 3D CONCORD

DR 126068-67-5, 105655-27-4, 36549-53-8, 36549-54-9, 36549-55-0, 36659-79-7

MF C6 H15 N O3

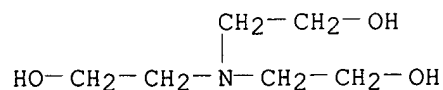
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13714 REFERENCES IN FILE CA (1967 TO DATE)
1732 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13721 REFERENCES IN FILE CAPLUS (1967 TO DATE)
39 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147756
REFERENCE 2: 137:147754
REFERENCE 3: 137:147674
REFERENCE 4: 137:145632
REFERENCE 5: 137:145364
REFERENCE 6: 137:145232
REFERENCE 7: 137:145185
REFERENCE 8: 137:144332
REFERENCE 9: 137:143928
REFERENCE 10: 137:143397

L30 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 100-37-8 REGISTRY

CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (2-Hydroxyethyl)diethylamine

CN (Diethylamino)ethanol

CN .beta.-(Diethylamino)ethanol

CN 2-(Diethylamino)ethanol

CN 2-(Diethylamino)ethyl alcohol

CN 2-(N,N-Diethylamino)ethanol

CN 2-Hydroxytriethylamine

CN DEAE

CN DEEA

CN Diethyl(.beta.-hydroxyethyl)amine

CN Diethylethanolamine

CN Diethylmonoethanolamine

CN MKS

CN N,N-Diethyl(2-hydroxyethyl)amine

CN N,N-Diethyl-2-aminoethanol

CN N,N-Diethylethanolamine

CN N,N-Diethylmonoethanolamine

CN N-(2-Hydroxyethyl)diethylamine

CN Pennad 150

FS 3D CONCORD

DR 102802-00-6

MF C6 H15 N O

CI COM

LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU,
EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE,
TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Et₂N-CH₂-CH₂-OH

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

1862 REFERENCES IN FILE CA (1967 TO DATE)
211 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1865 REFERENCES IN FILE CAPLUS (1967 TO DATE)
30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:142002
REFERENCE 2: 137:140822
REFERENCE 3: 137:140276
REFERENCE 4: 137:137069
REFERENCE 5: 137:119680
REFERENCE 6: 137:108980
REFERENCE 7: 137:102407
REFERENCE 8: 137:59913
REFERENCE 9: 137:50198
REFERENCE 10: 137:27052

L30 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN **75-21-8** REGISTRY

CN Oxirane (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethylene oxide (8CI)

CN Ethyleneoxy (6CI)

OTHER NAMES:

CN 1,2-Epoxyethane

CN 12/88

CN Ciba-Geigy 9138

CN Dihydrooxirene

CN Dimethylene oxide

CN Epoxyethane

CN Ethene oxide

CN ETO

CN Mirror Ox

CN Oxacyclopropane

CN Oxane

CN Oxidoethane

CN Oxirene, dihydro-

CN Oxyfume

CN Oxyfume 12

CN T-Gas

FS 3D CONCORD

DR 19034-08-3, 37341-05-2, 99932-75-9, 184288-32-2

MF C2 H4 O

CI COM, RPS

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,

MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT,
RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2,
USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

12882 REFERENCES IN FILE CA (1967 TO DATE)
2856 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12890 REFERENCES IN FILE CAPLUS (1967 TO DATE)
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147714

REFERENCE 2: 137:145670

REFERENCE 3: 137:145199

REFERENCE 4: 137:142197

REFERENCE 5: 137:140827

REFERENCE 6: 137:140778

REFERENCE 7: 137:137393

REFERENCE 8: 137:129062

REFERENCE 9: 137:126836

REFERENCE 10: 137:126833

L30 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 56-81-5 REGISTRY

CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycerol (8CI)

CN Propanetriol (7CI)

OTHER NAMES:

CN 1,2,3-Trihydroxypropane

CN Glycerin

CN Glycerine

CN Glyceritol

CN Glycyl alcohol

CN Glyrol

CN Glysanin

CN Osmoglyn

CN Pricerine 9091

CN Trihydroxypropane

AR 30918-77-5

FS 3D CONCORD

DR 8013-25-0, 37228-54-9, 75398-78-6, 78630-16-7, 29796-42-7, 30049-52-6

MF C3 H8 O3

CI COM

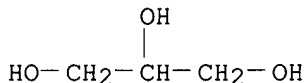
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,

BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

44111 REFERENCES IN FILE CA (1967 TO DATE)
 4612 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 44166 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148859
 REFERENCE 2: 137:147616
 REFERENCE 3: 137:146919
 REFERENCE 4: 137:145993
 REFERENCE 5: 137:145667
 REFERENCE 6: 137:145650
 REFERENCE 7: 137:145649
 REFERENCE 8: 137:145618
 REFERENCE 9: 137:145612
 REFERENCE 10: 137:145609

=> d 189 ide can tot

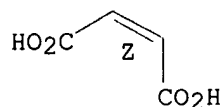
L89 ANSWER 1 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 436810-37-6 REGISTRY
 CN 2-Butenedioic acid (2Z)-, potassium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . x K)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 10237-70-4 (110-16-7)
 CMF C4 H4 O4 . x K

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

Double bond geometry as shown.

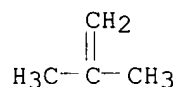


●x K

CM 2

CRN 115-11-7

CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:33983

L89 ANSWER 2 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 431946-68-8 REGISTRY

CN 2-Propenoic acid, polymer with 2-methyl-1-propene, alternating, block
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acrylic acid-isobutylene alternating block copolymer

MF (C4 H8 . C3 H4 O2)x

CI PMS

PCT Polyacrylic, Polyolefin

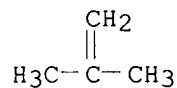
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 115-11-7

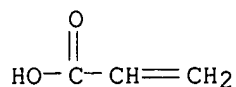
CMF C4 H8



CM 2

CRN 79-10-7

CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:403175

L89 ANSWER 3 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 355117-35-0 REGISTRY

CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 1-propene, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 1-propene, graft (9CI)

OTHER NAMES:

CN Maleic anhydride-polyethylene glycol-propylene graft copolymer

MF (C4 H2 O3 . C3 H6 . (C2 H4 O)n H2 O)x

CI PMS

PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

SR CA

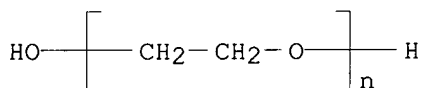
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

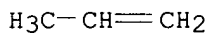
CCI PMS



CM 2

CRN 115-07-1

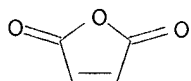
CMF C3 H6



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

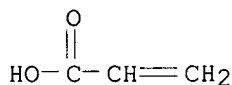
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:181199

L89 ANSWER 4 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 345296-06-2 REGISTRY
 CN Oxirane, polymer with ethene, 2-propenoate, block (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with oxirane, 2-propenoate, block (9CI)
 MF C3 H4 O2 . x (C2 H4 O . C2 H4)x
 PCT Polyether, Polyether formed, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
 CMF C3 H4 O2



CM 2

CRN 126140-91-8
 CMF (C2 H4 O . C2 H4)x
 CCI PMS

CM 3

CRN 75-21-8
 CMF C2 H4 O



CM 4

CRN 74-85-1
 CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

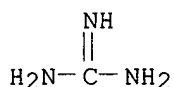
REFERENCE 1: 135:61608

L89 ANSWER 5 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 339990-00-0 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, compd. with guanidine, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, compd. with guanidine,
ammonium salt (9CI)
MF (C4 H8 . C4 H2 O3)x . x C H5 N3 . x H3 N
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 113-00-8
CMF C H5 N3

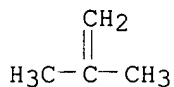


CM 2

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

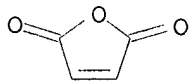
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:374103

L89 ANSWER 6 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 317802-93-0 REGISTRY

CN 2-Propenoic acid, polymer with ethene, 2-(diethylamino)ethyl ester (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-propenoic acid, 2-(diethylamino)ethyl ester (9CI)

OTHER NAMES:

CN Ethylene-acrylic acid copolymer ester with diethylaminoethanol

MF C6 H15 N O . x (C3 H4 O2 . C2 H4)x

PCT Polyacrylic, Polyolefin

SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 100-37-8
CMF C6 H15 N O

$\text{Et}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$

CM 2

CRN 9010-77-9
CMF (C3 H4 O2 . C2 H4)x
CCI PMS

CM 3

CRN 79-10-7
CMF C3 H4 O2

$\begin{array}{c} \text{O} \\ || \\ \text{HO}-\text{C}-\text{CH}=\text{CH}_2 \end{array}$

CM 4

CRN 74-85-1
CMF C2 H4

$\text{H}_2\text{C}=\text{CH}_2$

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:86667

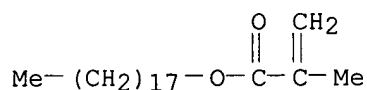
L89 ANSWER 7 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 263025-15-6 REGISTRY
CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and octadecyl 2-methyl-2-propenoate, ammonium salt (9CI)
CN 2,5-Furandione, polymer with 2-methyl-1-propene and octadecyl 2-methyl-2-propenoate, ammonium salt (9CI)
OTHER NAMES:
CN Isobutylene-maleic anhydride-stearyl methacrylate copolymer ammonium salt
MF (C22 H42 O2 . C4 H8 . C4 H2 O3)x . x H3 N
PCT Polyacrylic, Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 263025-14-5
 CMF (C22 H42 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

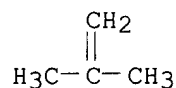
CM 2

CRN 32360-05-7
 CMF C22 H42 O2



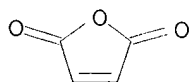
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:252251

L89 ANSWER 8 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 263025-13-4 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, hexyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and hexyl 2-methyl-2-propenoate, ammonium salt (9CI)
 CN 2,5-Furandione, polymer with hexyl 2-methyl-2-propenoate and 2-methyl-1-propene, ammonium salt (9CI)
 OTHER NAMES:
 CN Hexyl methacrylate-isobutylene-maleic anhydride copolymer ammonium salt
 MF (C10 H18 O2 . C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

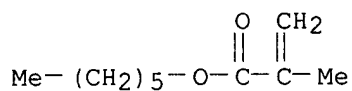
CM 1

CRN 263025-12-3

CMF (C10 H18 O2 . C4 H8 . C4 H2 O3)x
CCI PMS

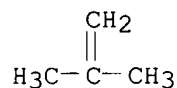
CM 2

CRN 142-09-6
CMF C10 H18 O2



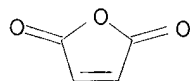
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



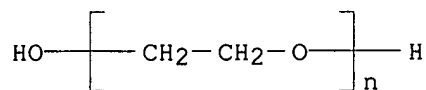
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:252251

L89 ANSWER 9 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 223463-61-4 REGISTRY
CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-1-propene, graft (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 2-methyl-1-propene, graft (9CI)
MF (C4 H8 . C4 H2 O3 . (C2 H4 O)n H2 O)x
CI PMS
PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

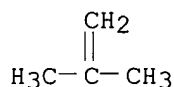
CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



CM 2

CRN 115-11-7

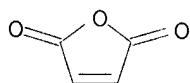
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:300554

L89 ANSWER 10 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 221347-89-3 REGISTRY

CN 2-Propenoic acid, polymer with dihydro-2,5-furandione, 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI)

CN 2,5-Furandione, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with dihydro-2,5-furandione, 2,5-furandione and 2-propenoic acid, graft, sodium salt (9CI)

MF (C4 H4 O3 . C4 H2 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x . x Na

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

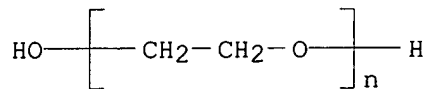
CRN 221347-88-2

CMF (C4 H4 O3 . C4 H2 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x

CCI PMS

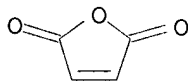
CM 2

CRN 25322-68-3
 CMF (C2 H4 O)_n H2 O
 CCI PMS



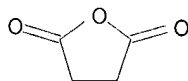
CM 3

CRN 108-31-6
 CMF C4 H2 O3



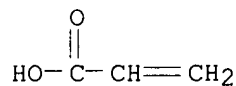
CM 4

CRN 108-30-5
 CMF C4 H4 O3



CM 5

CRN 79-10-7
 CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:241139

L89 ANSWER 11 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 221347-88-2 REGISTRY

CN 2-Propenoic acid, polymer with dihydro-2,5-furandione, 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI)

CN 2,5-Furandione, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with dihydro-2,5-furandione, 2,5-furandione and 2-propenoic acid, graft (9CI)

OTHER NAMES:

CN Acrylic acid-maleic anhydride-polyethylene glycol-succinic anhydride graft copolymer

MF (C4 H4 O3 . C4 H2 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x

CI PMS, COM

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl

SR CA

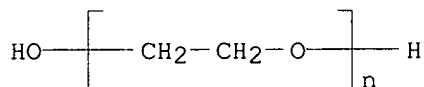
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

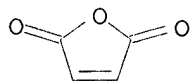
CCI PMS



CM 2

CRN 108-31-6

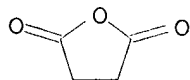
CMF C4 H2 O3



CM 3

CRN 108-30-5

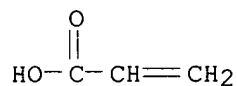
CMF C4 H4 O3



CM 4

CRN 79-10-7

CMF C3 H4 O2



- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:275746

L89 ANSWER 12 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 221347-87-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with (2Z)-2-butenedioic acid, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI)

CN 2-Propenoic acid, polymer with (2Z)-2-butenedioic acid, dihydro-2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (2Z)-2-butenedioic acid, dihydro-2,5-furandione and 2-propenoic acid, graft (9CI)

FS STEREOSEARCH

MF (C4 H4 O4 . C4 H4 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x

CI PMS

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl

SR CA

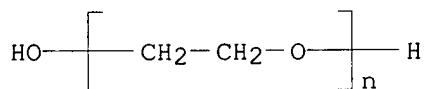
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

CCI PMS

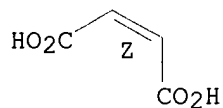


CM 2

CRN 110-16-7

CMF C4 H4 O4

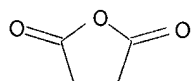
Double bond geometry as shown.



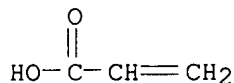
CM 3

CRN 108-30-5

CMF C4 H4 O3



CM 4

CRN 79-10-7
CMF C3 H4 O21 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

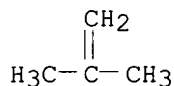
REFERENCE 1: 130:241139

L89 ANSWER 13 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 218166-08-6 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, block, ammonium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, block, ammonium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

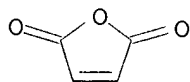
CM 1

CRN 218166-07-5
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:67589

L89 ANSWER 14 OF 155 REGISTRY COPYRIGHT 2002 ACS

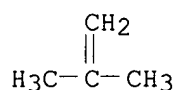
RN 218166-07-5 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, block (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, block (9CI)
MF (C4 H8 . C4 H2 O3)x
CI PMS, COM
PCT Polyolefin, Polyvinyl
SR CA

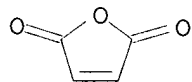
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 108-31-6
CMF C4 H2 O3



L89 ANSWER 15 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 213197-91-2 REGISTRY
CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene, block (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

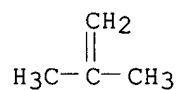
CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid, block (9CI)

OTHER NAMES:

CN Isobutylene-methacrylic acid block copolymer
MF (C4 H8 . C4 H6 O2)x
CI PMS
PCT Polyacrylic, Polyolefin
SR CA
LC STN Files: CA, CAPLUS

CM 1

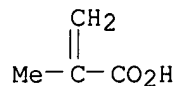
CRN 115-11-7
CMF C4 H8



CM 2

CRN 79-41-4

CMF C4 H6 O2



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:322360

REFERENCE 2: 129:290454

REFERENCE 3: 129:245580

L89 ANSWER 16 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 213031-80-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2,5-furandione and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl
2-methyl-2-propenoate, sodium salt (9CI)

CN 2,5-Furandione, polymer with methyl 2-methyl-2-propenoate and
2-methyl-1-propene, sodium salt (9CI)

MF (C5 H8 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 105995-60-6

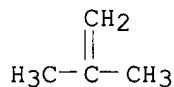
CMF (C5 H8 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

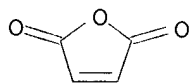
CMF C4 H8



CM 3

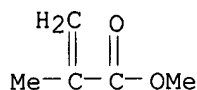
CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:252524

L89 ANSWER 17 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 213031-78-8 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-methyl-2-propenoate, ammonium salt (9CI)

CN 2,5-Furandione, polymer with methyl 2-methyl-2-propenoate and 2-methyl-1-propene, ammonium salt (9CI)

MF (C5 H8 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 105995-60-6

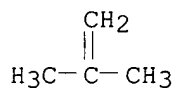
CMF (C5 H8 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

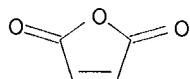
CMF C4 H8



CM 3

CRN 108-31-6

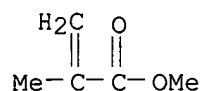
CMF C4 H2 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



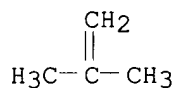
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:252524

L89 ANSWER 18 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 212006-66-1 REGISTRY
CN Butanedioic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with butanedioic acid (9CI)
MF (C4 H8 . C4 H6 O4)x
CI PMS
PCT Polyolefin, Polyother
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

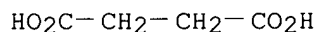
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 110-15-6
CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

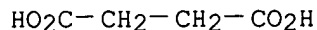
REFERENCE 1: 129:205088

L89 ANSWER 19 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 210491-61-5 REGISTRY
CN Butanedioic acid, monoester with 1,2,3-propanetriol mono(2-methyl-2-propenoate) mono-2-propenoate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Glycerol acrylate methacrylate succinate half-ester
MF C14 H18 O8
CI IDS
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 110-15-6

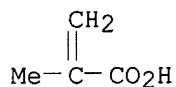
CMF C4 H6 O4



CM 2

CRN 79-41-4

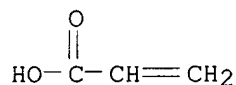
CMF C4 H6 O2



CM 3

CRN 79-10-7

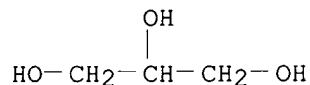
CMF C3 H4 O2



CM 4

CRN 56-81-5

CMF C3 H8 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:137515

L89 ANSWER 20 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 205437-70-3 REGISTRY

CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with butyl 2-propenoate and 2,5-furandione,
sodium salt (9CI)CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene,
sodium salt (9CI)

MF (C7 H12 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

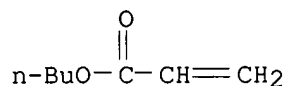
LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0
 CMF (C7 H12 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

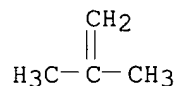
CM 2

CRN 141-32-2
 CMF C7 H12 O2



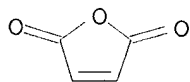
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



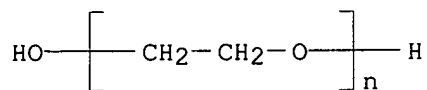
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:263978

L89 ANSWER 21 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 204637-22-9 REGISTRY
 CN 2,5-Furandione, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with ethene and 2,5-furandione, graft (9CI)
 MF (C4 H2 O3 . (C2 H4 O)n H2 O . C2 H4)x
 CI PMS, COM
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 SR CA

CM 1

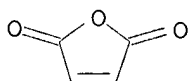
CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



CM 2

CRN 108-31-6

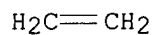
CMF C4 H2 O3



CM 3

CRN 74-85-1

CMF C2 H4



L89 ANSWER 22 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 204528-38-1 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, ethyl ester, sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ethyl ester, sodium
salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x C2 H6 O . x Na

PCT Polyolefin, Polyvinyl

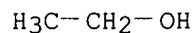
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 64-17-5

CMF C2 H6 O



CM 2

CRN 26426-80-2

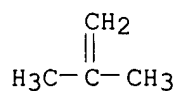
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

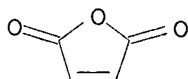
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:232620

L89 ANSWER 23 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 204528-37-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, methyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, methyl ester, ammonium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x C H4 O . x H3 N

PCT Polyolefin, Polyvinyl

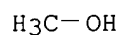
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 26426-80-2

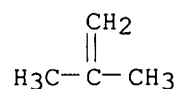
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

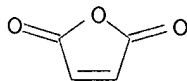
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:232620

L89 ANSWER 24 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 200888-50-2 REGISTRY

CN Oxirane, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) 2-methyl-2-propenoate and oxirane, graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 2-methyl-2-propenoate, polymer with ethene and oxirane, graft (9CI)

OTHER NAMES:

CN Ethylene-ethylene oxide-polyethylene glycol methacrylate graft copolymer

MF (C4 H6 O2 . x (C2 H4 O)n H2 O . C2 H4 O . C2 H4)x

CI PMS

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 75-21-8

CMF C2 H4 O



CM 2

CRN 74-85-1

CMF C2 H4



CM 3

CRN 9056-77-3

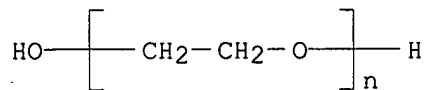
CMF C4 H6 O2 . x (C2 H4 O)n H2 O

CM 4

CRN 25322-68-3

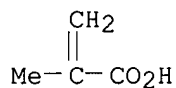
CMF (C2 H4 O)n H2 O

CCI PMS



CM 5

CRN 79-41-4
CMF C4 H6 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:123563

REFERENCE 2: 128:89572

L89 ANSWER 25 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 196413-49-7 REGISTRY

CN 2-Propenoic acid, polymer with ethene and oxirane, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with oxirane and 2-propenoic acid, graft (9CI)

CN Oxirane, polymer with ethene and 2-propenoic acid, graft (9CI)

OTHER NAMES:

CN Acrylic acid-ethylene-ethylene oxide graft copolymer

MF (C3 H4 O2 . C2 H4 O . C2 H4)x

CI PMS, COM

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

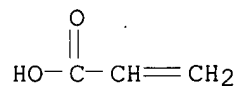
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

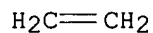
CRN 75-21-8

CMF C2 H4 O



CM 3

CRN 74-85-1
CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:94030

L89 ANSWER 26 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 196413-47-5 REGISTRY

CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane, methyl
ether, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane, methyl ether,
graft (9CI)

CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid, methyl ether,
graft (9CI)

MF (C4 H6 O2 . C2 H4 O . C2 H4)x . x C H4 O

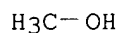
PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 67-56-1
CMF C H4 O



CM 2

CRN 196305-71-2

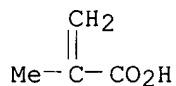
CMF (C4 H6 O2 . C2 H4 O . C2 H4)x

CCI PMS

CM 3

CRN 79-41-4

CMF C4 H6 O2



CM 4

CRN 75-21-8

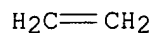
CMF C2 H4 O



CM 5

CRN 74-85-1

CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:294102

L89 ANSWER 27 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 196305-73-4 REGISTRY

CN 2-Propenoic acid, polymer with oxirane and 1-propene, block, graft (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with 2-propenoic acid and oxirane, block, graft (9CI)

CN Oxirane, polymer with 2-propenoic acid and 1-propene, block, graft (9CI)

MF (C3 H6 . C3 H4 O2 . C2 H4 O)x

CI PMS, COM

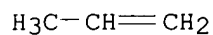
PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

SR CA

CM 1

CRN 115-07-1

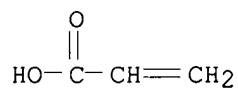
CMF C3 H6



CM 2

CRN 79-10-7

CMF C3 H4 O2



CM 3

CRN 75-21-8

CMF C2 H4 O



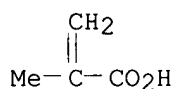
L89 ANSWER 28 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 196305-71-2 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane, graft (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane, graft (9CI)
 CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid, graft (9CI)
 MF (C4 H6 O2 . C2 H4 O . C2 H4)x
 CI PMS, COM
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA

CM 1

CRN 79-41-4
 CMF C4 H6 O2



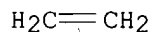
CM 2

CRN 75-21-8
 CMF C2 H4 O



CM 3

CRN 74-85-1
 CMF C2 H4



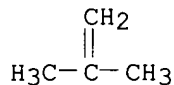
L89 ANSWER 29 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 195990-97-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1-octadecene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Octadecene, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1-octadecene, sodium salt (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride-1-octadecene copolymer sodium salt
 MF (C18 H36 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 195990-96-6
 CMF (C18 H36 . C4 H8 . C4 H2 O3)x
 CCI PMS

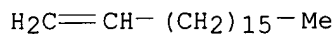
CM 2

CRN 115-11-7
 CMF C4 H8



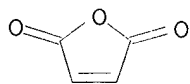
CM 3

CRN 112-88-9
 CMF C18 H36



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:264582

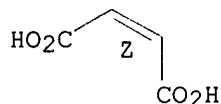
L89 ANSWER 30 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 195209-31-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with ethene and 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Butenedioic acid (Z)-, polymer with ethene and 2,2',2''-nitrilotris[ethanol]
 CN Ethanol, 2,2',2''-nitrilotris-, polymer with (2Z)-2-butenedioic acid and ethene (9CI)
 CN Ethanol, 2,2',2''-nitrilotris-, polymer with (Z)-2-butenedioic acid and ethene
 CN Ethene, polymer with (2Z)-2-butenedioic acid and 2,2',2''-nitrilotris[ethanol] (9CI)
 CN Ethene, polymer with (Z)-2-butenedioic acid and 2,2',2''-nitrilotris[ethanol]
 OTHER NAMES:
 CN Ethylene-maleic acid-triethanolamine copolymer
 FS STEREOSEARCH
 MF (C6 H15 N O3 . C4 H4 O4 . C2 H4)x

CI PMS
 PCT Polyamine, Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

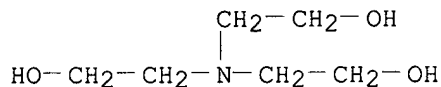
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 2

CRN 102-71-6
 CMF C6 H15 N O3



CM 3

CRN 74-85-1
 CMF C2 H4



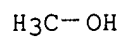
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:235131

L89 ANSWER 31 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 193362-33-3 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with 2,5-furandione,
 2-methyl-1-propene and oxirane, methyl ether, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-methyl-2-propenoic
 acid and oxirane, methyl ether, graft (9CI)
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-methyl-2-propenoic acid
 and oxirane, methyl ether, graft (9CI)
 CN Oxirane, polymer with 2,5-furandione, 2-methyl-1-propene and
 2-methyl-2-propenoic acid, methyl ether, graft (9CI)
 MF (C4 H8 . C4 H6 O2 . C4 H2 O3 . C2 H4 O)x . x C H4 O
 PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyether formed,
 Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 67-56-1
CMF C H4 O

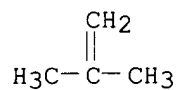


CM 2

CRN 193154-81-3
CMF (C4 H8 . C4 H6 O2 . C4 H2 O3 . C2 H4 O) x
CCI PMS

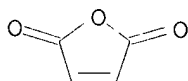
CM 3

CRN 115-11-7
CMF C4 H8



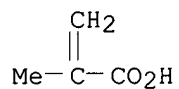
CM 4

CRN 108-31-6
CMF C4 H2 O3



CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 75-21-8
CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:149545

L89 ANSWER 32 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 191175-18-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and octadecene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and octadecene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and octadecene, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and octadecene, sodium salt

CN Octadecene, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt (9CI)

CN Octadecene, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt

FS STEREOSEARCH

MF (C18 H36 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyether, Polyvinyl

SR CAS Registry Services

LC STN Files: CHEMLIST

CM 1

CRN 191175-17-4

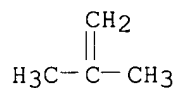
CMF (C18 H36 . C4 H8 . C4 H4 O4)x

CCI PMS

CM 2

CRN 115-11-7

CMF C4 H8

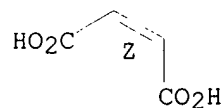


CM 3

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 27070-58-2

CMF C18 H36

CCI IDS

CM 5

CRN 593-45-3
CMF C18 H38

Me-(CH₂)₁₆-Me

L89 ANSWER 33 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 190454-10-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and
1-octadecene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecene, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene,
sodium salt (9CI)

CN 1-Octadecene, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene,
sodium salt

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and
1-octadecene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and
1-octadecene, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and 1-octadecene,
sodium salt

FS STEREOSEARCH

MF (C18 H36 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyvinyl

SR CAS Registry Services

CM 1

CRN 190454-09-2

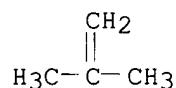
CMF (C18 H36 . C4 H8 . C4 H4 O4)x

CCI PMS

CM 2

CRN 115-11-7

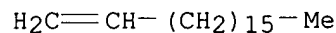
CMF C4 H8



CM 3

CRN 112-88-9

CMF C18 H36

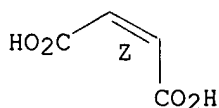


CM 4

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



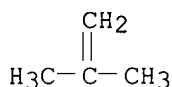
L89 ANSWER 34 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 180641-24-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating, ammonium salt (9CI)
 MF (C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 110171-93-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

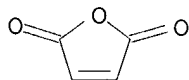
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:181467

L89 ANSWER 35 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 169952-27-6 REGISTRY
 CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, zinc salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with butyl 2-propenoate and 2,5-furandione, zinc salt (9CI)
 CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene, zinc salt (9CI)

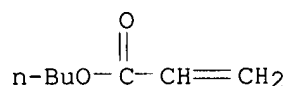
MF (C7 H12 O2 . C4 H8 . C4 H2 O3)x . x Zn
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0
 CMF (C7 H12 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

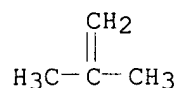
CM 2

CRN 141-32-2
 CMF C7 H12 O2



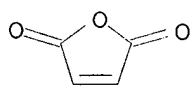
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:288220

L89 ANSWER 36 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 169952-26-5 REGISTRY
 CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and
 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer butyl 2-propenoate and 2,5-furandione,
 magnesium salt (9CI)
 CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene,
 magnesium salt (9CI)
 MF (C7 H12 O2 . C4 H8 . C4 H2 O3)x . x Mg
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0

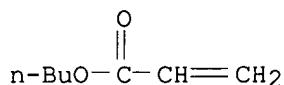
CMF (C7 H12 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 141-32-2

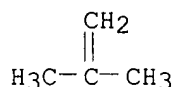
CMF C7 H12 O2



CM 3

CRN 115-11-7

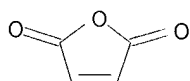
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:288220

L89 ANSWER 37 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 168980-03-8 REGISTRY

CN 2,5-Furandione, polymer with ethene and oxirane, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2,5-furandione and oxirane, graft (9CI)

CN Oxirane, polymer with ethene and 2,5-furandione, graft (9CI)

OTHER NAMES:

CN Ethylene-ethylene oxide-maleic anhydride graft copolymer

CN Ethylene-maleic anhydride-oxirane graft copolymer

MF (C4 H2 O3 . C2 H4 O . C2 H4)x

CI PMS, COM

PCT Polyester, Polyester formed, Polyether, Polyether formed, Polyolefin, Polyvinyl

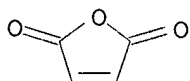
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 108-31-6

CMF C4 H2 O3



CM 2

CRN 75-21-8

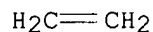
CMF C2 H4 O



CM 3

CRN 74-85-1

CMF C2 H4



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:5132

REFERENCE 2: 123:287803

L89 ANSWER 38 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 162414-22-4 REGISTRY

CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer with ethene, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate), graft (9CI)

MF (C7 H12 O4 . C2 H4)x

CI PMS

PCT Polyacrylic, Polyester, Polyolefin, Polyother

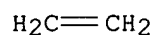
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 74-85-1

CMF C2 H4

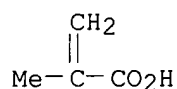


CM 2

CRN 50853-28-6
CMF C7 H12 O4
CCI IDS

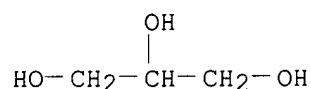
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 56-81-5
CMF C3 H8 O3



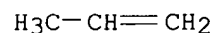
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:241853

L89 ANSWER 39 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 162024-58-0 REGISTRY
CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer
with 1-propene, graft (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate),
graft (9CI)
MF (C7 H12 O4 . C3 H6)x
CI PMS
PCT Polyacrylic, Polyester, Polyolefin, Polyother
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 115-07-1
CMF C3 H6



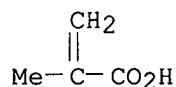
CM 2

CRN 50853-28-6
CMF C7 H12 O4

CCI IDS

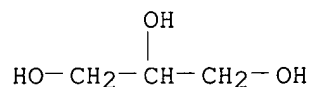
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 56-81-5
CMF C3 H8 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:215888

L89 ANSWER 40 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 160098-09-9 REGISTRY

CN 2,5-Furandione, polymer with dihydro-2,5-furandione and oxirane (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione and oxirane (9CI)

CN Oxirane, polymer with dihydro-2,5-furandione and 2,5-furandione (9CI)

OTHER NAMES:

CN Ethylene oxide-maleic anhydride-succinic anhydride copolymer

MF (C4 H4 O3 . C4 H2 O3 . C2 H4 O)x

CI PMS

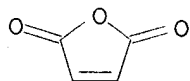
PCT Polyester, Polyester formed, Polyether, Polyether formed, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

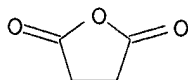
CM 1

CRN 108-31-6
CMF C4 H2 O3



CM 2

CRN 108-30-5
CMF C4 H4 O3



CM 3

CRN 75-21-8

CMF C2 H4 O



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:56741

L89 ANSWER 41 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 158908-36-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer with 1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate) (9CI)

MF (C7 H12 O4 . C3 H6)x

CI PMS

PCT Polyacrylic, Polyester, Polyolefin, Polyother

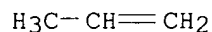
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 115-07-1

CMF C3 H6



CM 2

CRN 50853-28-6

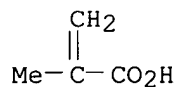
CMF C7 H12 O4

CCI IDS

CM 3

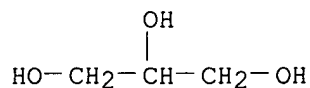
CRN 79-41-4

CMF C4 H6 O2



CM 4

CRN 56-81-5
CMF C3 H8 O3



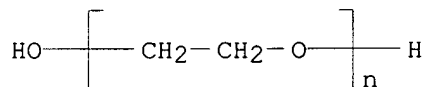
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:257540

L89 ANSWER 42 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 157661-48-8 REGISTRY
CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-1-propene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 2-methyl-1-propene (9CI)
MF (C4 H8 . C4 H2 O3 . (C2 H4 O)n H2 O)x
CI PMS
PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

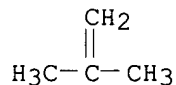
CM 1

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



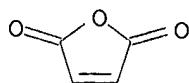
CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:158416

L89 ANSWER 43 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 153853-58-8 REGISTRY

CN 2,5-Furandione, polymer with 4,5-dihydro-2-(1-methylethenyl)oxazole and 2-methyl-1-propene, ammonium salt (9CI). (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 4,5-dihydro-2-(1-methylethenyl)oxazole and 2,5-furandione, ammonium salt (9CI)

CN Oxazole, 4,5-dihydro-2-(1-methylethenyl)-, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)

MF (C6 H9 N O . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 153853-57-7

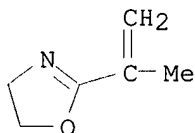
CMF (C6 H9 N O . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 10471-78-0

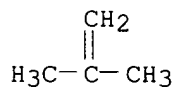
CMF C6 H9 N O



CM 3

CRN 115-11-7

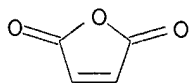
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:193353

L89 ANSWER 44 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 152019-56-2 REGISTRY

CN 2-Propenoic acid, polymer with ethene and oxirane, block, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with oxirane and 2-propenoic acid, block, graft (9CI)

CN Oxirane, polymer with ethene and 2-propenoic acid, block, graft (9CI)

MF (C3 H4 O2 . C2 H4 O . C2 H4)x

CI PMS

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

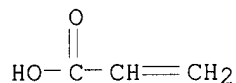
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 75-21-8

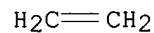
CMF C2 H4 O



CM 3

CRN 74-85-1

CMF C2 H4



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:11684

REFERENCE 2: 120:31943

L89 ANSWER 45 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 151421-06-6 REGISTRY
 CN 2,5-Furandione, polymer with 1,6-hexanediamine and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,6-Hexanediamine, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,6-hexanediamine,
 sodium salt (9CI)
 MF (C6 H16 N2 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyamide, Polyamide formed, Polyamine, Polyamine formed, Polyolefin,
 Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 151421-05-5
 CMF (C6 H16 N2 . C4 H8 . C4 H2 O3)x
 CCI PMS

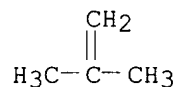
CM 2

CRN 124-09-4
 CMF C6 H16 N2

H₂N-(CH₂)₆-NH₂

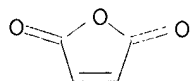
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:272033

L89 ANSWER 46 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 147545-70-8 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene, ester with
 .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX

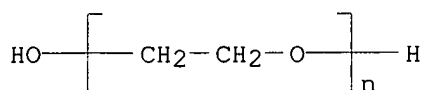
NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-methyl-2-propenoic acid, ester with
 .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 MF (C4 H6 O2 . C2 H4)x . x (C2 H4 O)n H2 O
 PCT Polyacrylic, Polyether, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS

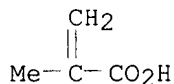


CM 2

CRN 25053-53-6
 CMF (C4 H6 O2 . C2 H4)x
 CCI PMS

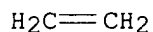
CM 3

CRN 79-41-4
 CMF C4 H6 O2



CM 4

CRN 74-85-1
 CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 118:214102

L89 ANSWER 47 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 142708-63-2 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-,
 2-methyl-2-propenoate, polymer with ethene (9CI) (CA INDEX NAME)

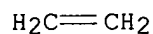
OTHER CA INDEX NAMES:

CN Ethene, polymer with .alpha.-hydro-.omega.-hydroxy[poly(oxy-1,2-
 ethanediyl)] 2-methyl-2-propenoate (9CI)
 MF (C4 H6 O2 . x (C2 H4 O)n H2 O . C2 H4)x

CI PMS
 PCT Polyacrylic, Polyether, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 74-85-1
 CMF C2 H4

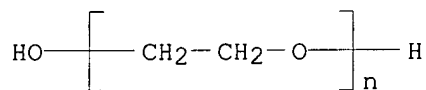


CM 2

CRN 9056-77-3
 CMF C4 H6 O2 . x (C2 H4 O)n H2 O

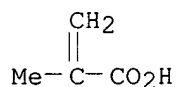
CM 3

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



CM 4

CRN 79-41-4
 CMF C4 H6 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:71587

REFERENCE 2: 117:71586

L89 ANSWER 48 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 142277-89-2 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, titanium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, titanium salt (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride copolymer titanium salt
 MF (C4 H8 . C4 H2 O3)x . x Ti
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

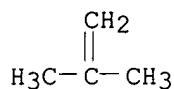
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

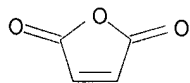
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:27472

L89 ANSWER 49 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 142277-88-1 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, copper salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, copper salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer copper salt

MF (C4 H8 . C4 H2 O3)x . x Cu

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

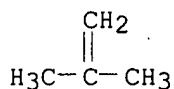
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

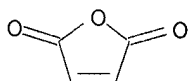
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:33222

REFERENCE 2: 117:27472

L89 ANSWER 50 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 141239-96-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium salt (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-(oxiranylmethyl)-.omega.-(oxiranylmethoxy)-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . (C2 H4 O)_n C6 H10 O3)_x . x Na

PCT Epoxy resin, Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 113095-69-5

CMF (C4 H8 . C4 H2 O3 . (C2 H4 O)_n C6 H10 O3)_x

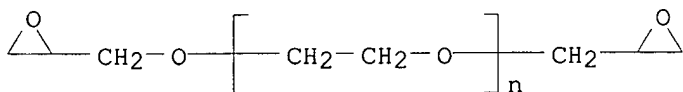
CCI PMS

CM 2

CRN 26403-72-5

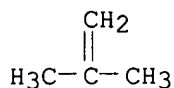
CMF (C2 H4 O)_n C6 H10 O3

CCI PMS



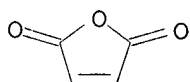
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:11767

REFERENCE 2: 116:216280

L89 ANSWER 51 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 141105-38-6 REGISTRY

CN 2,5-Furandione, polymer with ethenol and 2-methyl-1-propene, sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with ethenol and 2,5-furandione, sodium salt
(9CI)

CN Ethenol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt
(9CI)

MF (C4 H8 . C4 H2 O3 . C2 H4 O)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 52641-05-1

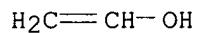
CMF (C4 H8 . C4 H2 O3 . C2 H4 O)x

CCI PMS

CM 2

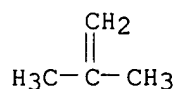
CRN 557-75-5

CMF C2 H4 O



CM 3

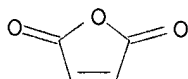
CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:249099

REFERENCE 2: 116:216280

L89 ANSWER 52 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 140219-11-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, zinc salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, zinc salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer zinc salt

MF (C4 H8 . C4 H2 O3)x . x Zn

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

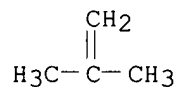
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

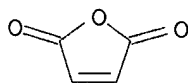
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



5 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:33222
REFERENCE 2: 118:65639
REFERENCE 3: 117:136520
REFERENCE 4: 117:27472
REFERENCE 5: 116:179855

L89 ANSWER 53 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 137763-54-3 REGISTRY
CN 2,5-Furandione, polymer with aziridine and 2-methyl-1-propene, sodium salt
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with aziridine and 2,5-furandione, sodium
salt (9CI)
CN Aziridine, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt
(9CI)
MF (C4 H8 . C4 H2 O3 . C2 H5 N)x . x Na
PCT Polyamine, Polyamine formed, Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 57649-62-4
CMF (C4 H8 . C4 H2 O3 . C2 H5 N)x
CCI PMS

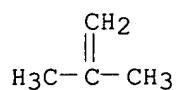
CM 2

CRN 151-56-4
CMF C2 H5 N



CM 3

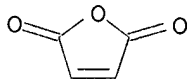
CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



4 REFERENCES IN FILE CA (1967 TO DATE)

4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:136848

REFERENCE 2: 119:119695

REFERENCE 3: 118:149541

REFERENCE 4: 115:281573

L89 ANSWER 54 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 137692-27-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, ammonium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (Z)-ammonium 2-butenedioate (9CI)

CN 2-Butenedioic acid (Z)-, ammonium salt, polymer with 2-methyl-1-propene

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4 . x H3 N)x

CI PMS

PCT Polyolefin, Polyvinyl

SR CA

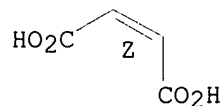
LC STN Files: CA, CAPLUS

CM 1

CRN 13716-99-9 (110-16-7)

CMF C4 H4 O4 . x H3 N

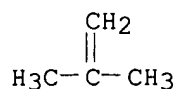
Double bond geometry as shown.

● x NH₃

CM 2

CRN 115-11-7

CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:282276

L89 ANSWER 55 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 137414-12-1 REGISTRY

CN 2,5-Furandione, polymer with 1-amino-2-propanol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (.-)-1-amino-2-propanol and 2,5-furandione, sodium salt

CN 1-Propene, 2-methyl-, polymer with 1-amino-2-propanol and 2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with (.-)-1-amino-2-propanol and 2-methyl-1-propene, sodium salt

CN 2-Propanol, 1-amino-, (.-)-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt

CN 2-Propanol, 1-amino-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C3 H9 N O)x . x Na

PCT Polyolefin, Polyether, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-11-0

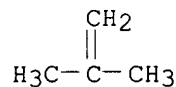
CMF (C4 H8 . C4 H2 O3 . C3 H9 N O)x

CCI PMS

CM 2

CRN 115-11-7

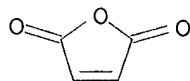
CMF C4 H8



CM 3

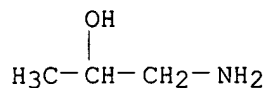
CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 78-96-6
CMF C3 H9 N O



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

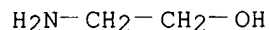
L89 ANSWER 56 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 137414-10-9 REGISTRY
CN 2,5-Furandione, polymer with 2-aminoethanol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2-aminoethanol and 2,5-furandione, sodium salt (9CI)
CN Ethanol, 2-amino-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
MF (C4 H8 . C4 H2 O3 . C2 H7 N O)x . x Na
PCT Polyolefin, Polyether, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-09-6
CMF (C4 H8 . C4 H2 O3 . C2 H7 N O)x
CCI PMS

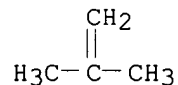
CM 2

CRN 141-43-5
CMF C2 H7 N O



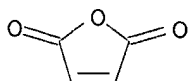
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

L89 ANSWER 57 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 137414-08-5 REGISTRY

CN 2,5-Furandione, polymer with 2-amino-2-(hydroxymethyl)-1,3-propanediol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 2-amino-2-(hydroxymethyl)-1,3-propanediol and 2,5-furandione, sodium salt (9CI)

MF (C4 H11 N O3 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-07-4

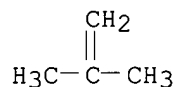
CMF (C4 H11 N O3 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

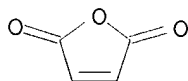
CMF C4 H8



CM 3

CRN 108-31-6

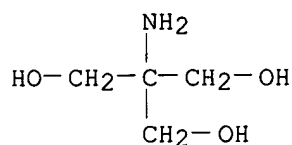
CMF C4 H2 O3



CM 4

CRN 77-86-1

CMF C4 H11 N O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

L89 ANSWER 58 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136596-85-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium zinc salt (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium zinc salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x Na . x Zn

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

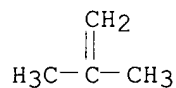
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

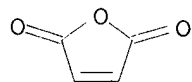
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 59 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136575-62-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, nickel(2+) sodium salt
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

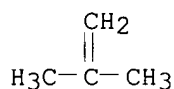
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, nickel(2+) sodium salt
(9CI)
MF (C4 H8 . C4 H2 O3)x . x Na . x Ni
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

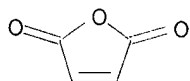
CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 60 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136575-61-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, magnesium sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, magnesium sodium salt
(9CI)

MF (C4 H8 . C4 H2 O3)x . x Mg . x Na

PCT Polyolefin, Polyvinyl

SR CA

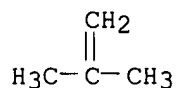
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

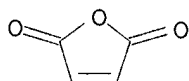
CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 61 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136575-60-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, iron(2+) sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, iron(2+) sodium salt
(9CI)

MF (C4 H8 . C4 H2 O3)x . x Fe . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

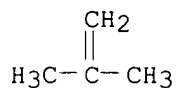
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

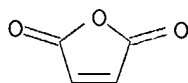
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 62 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136575-59-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, aluminum sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, aluminum sodium salt
(9CI)

MF (C4 H8 . C4 H2 O3)x . x Al . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

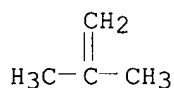
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

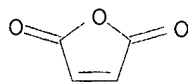
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 63 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 136575-58-1 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, aluminum salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, aluminum salt (9CI)

OTHER NAMES:

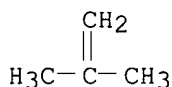
CN Isobutene-maleic anhydride copolymer aluminum salt
 CN Isobutylene-maleic anhydride copolymer aluminum salt
 MF (C4 H8 . C4 H2 O3)x . x Al
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

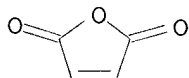
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:110635

REFERENCE 2: 137:34602

REFERENCE 3: 117:27472

REFERENCE 4: 115:188778

L89 ANSWER 64 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 135639-46-2 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, alternating
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, alternating
 (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, alternating

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, alternating

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x

CI PMS

PCT Polyolefin, Polyvinyl

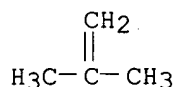
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 115-11-7

CMF C4 H8

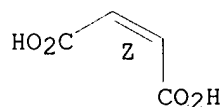


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:233396

REFERENCE 2: 115:208958

L89 ANSWER 65 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 134437-81-3 REGISTRY

CN 1H-Pyrrole-2,5-dione, 1-dodecyl-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 1-dodecyl-1H-pyrrole-2,5-dione and 2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with 1-dodecyl-1H-pyrrole-2,5-dione and 2-methyl-1-propene, sodium salt (9CI)

MF (C16 H27 N O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 134437-80-2

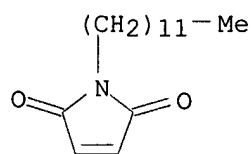
CMF (C16 H27 N O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 17616-03-4

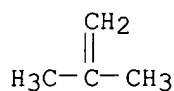
CMF C16 H27 N O2



CM 3

CRN 115-11-7

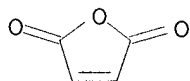
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:11311

L89 ANSWER 66 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127864-52-2 REGISTRY

CN 2-Butenedioic acid, monoammonium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with ammonium hydrogen 2-butenedioate (9CI)

MF (C4 H8 . C4 H4 O4 . H3 N)x

CI PMS

PCT Polyolefin, Polyvinyl

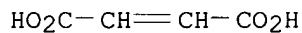
SR CA

LC STN Files: CA, CAPLUS

CM 1

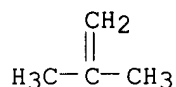
CRN 1509-68-8 (6915-18-0)

CMF C4 H4 O4 . H3 N



NH3

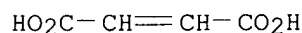
CM 2

CRN 115-11-7
CMF C4 H81 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

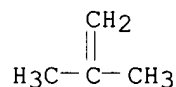
L89 ANSWER 67 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 127864-51-1 REGISTRY
CN 2-Butenedioic acid, monopotassium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with potassium hydrogen 2-butenedioate (9CI)
MF (C4 H8 . C4 H4 O4 . K) x
CI PMS
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 116549-86-1 (6915-18-0)
CMF C4 H4 O4 . K

● K

CM 2

CRN 115-11-7
CMF C4 H81 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

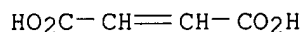
L89 ANSWER 68 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 127864-27-1 REGISTRY
CN 2-Butenedioic acid, monolithium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with lithium hydrogen 2-butenedioate (9CI)
 MF (C4 H8 . C4 H4 O4 . Li)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

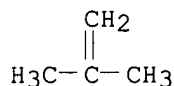
CRN 127864-26-0 (6915-18-0)
 CMF C4 H4 O4 . Li



● Li

CM 2

CRN 115-11-7
 CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

L89 ANSWER 69 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-79-8 REGISTRY

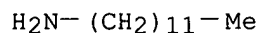
CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with 1-dodecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Dodecanamine, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with 1-dodecanamine (9CI)
 MF C12 H27 N . x (C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 124-22-1
 CMF C12 H27 N

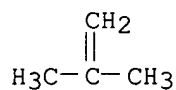


CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

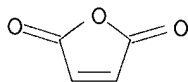
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



L89 ANSWER 70 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-76-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with
 N,N-dimethyl-1-dodecanamine (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Dodecanamine, N,N-dimethyl-, sodium salt, compd. with 2,5-furandione
 polymer with 2-methyl-1-propene (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd.
 with N,N-dimethyl-1-dodecanamine (9CI)
 MF **C14 H31 N . x (C4 H8 . C4 H2 O3)x . x Na**
 PCT Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 112-18-5
 CMF C14 H31 N

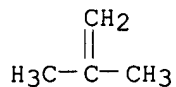
Me₂N- (CH₂)₁₁-Me

CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 3

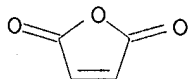
CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 71 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-75-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with
N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N-octadecyl-, sodium salt, compd. with 2,5-furandione
polymer with 2-methyl-1-propene (9CI)CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd.
with N-octadecyl-1-octadecanamine (9CI)

MF C36 H75 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 112-99-2

CMF C36 H75 N



CM 2

CRN 26426-80-2

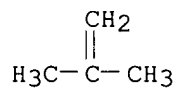
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

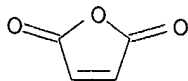
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 72 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-74-3 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with
 1-octadecanamine (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Octadecanamine, sodium salt, compd. with 2,5-furandione polymer with
 2-methyl-1-propene (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd.
 with 1-octadecanamine (9CI)
 MF C18 H39 N . x (C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 124-30-1
 CMF C18 H39 N

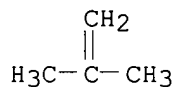
H₂N-(CH₂)₁₇-Me

CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

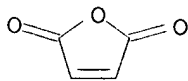
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



L89 ANSWER 73 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-73-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N,N-dimethyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N,N-dimethyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N,N-dimethyl-1-octadecanamine (9CI)

MF C20 H43 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 124-28-7

CMF C20 H43 N

Me₂N-(CH₂)₁₇-Me

CM 2

CRN 26426-80-2

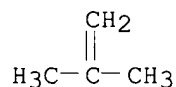
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

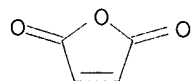
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 74 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-72-1 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N-methyl-N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N-methyl-N-octadecyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N-methyl-N-octadecyl-1-octadecanamine (9CI)

MF C37 H77 N . x (C4 H8 . C4 H2 O3)x . x Na

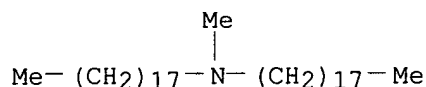
PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 4088-22-6

CMF C37 H77 N



CM 2

CRN 26426-80-2

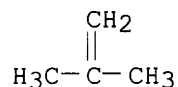
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

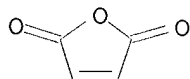
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 75 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126692-20-4 REGISTRY

CN Isocyanic acid, polymethylenepolyphenylene ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and polymethylenepolyphenylene isocyanate, sodium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and polymethylenepolyphenylene isocyanate, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . Unspecified)x . x Na

PCT Manual component, Manual registration, Polycarbodiimide, Polycarbodiimide formed, Polyisocyanurate, Polyisocyanurate formed, Polyolefin, Polyether, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 126692-19-1

CMF (C4 H8 . C4 H2 O3 . Unspecified)x

CCI PMS

CM 2

CRN 9016-87-9

CMF Unspecified

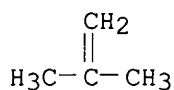
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 115-11-7

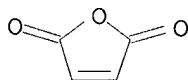
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:180987

L89 ANSWER 76 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126338-11-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate and 2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with dodecyl 2-methyl-2-propenoate and 2-methyl-1-propene, sodium salt (9CI)

OTHER NAMES:

CN n-Dodecyl methacrylate-isobutylene-maleic anhydride copolymer sodium salt
MF (C16 H30 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 103849-62-3

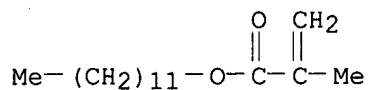
CMF (C16 H30 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 142-90-5

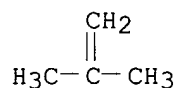
CMF C16 H30 O2



CM 3

CRN 115-11-7

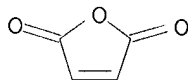
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 112:199360

L89 ANSWER 77 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126338-10-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with 2,5-furandione
and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with docosyl 2-methyl-2-propenoate and
2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with docosyl 2-methyl-2-propenoate and
2-methyl-1-propene, sodium salt (9CI)

OTHER NAMES:

CN n-Docosyl methacrylate-isobutylene-maleic anhydride copolymer sodium salt

MF (C26 H50 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

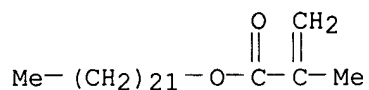
CRN 103875-04-3

CMF (C26 H50 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

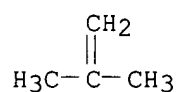
CM 2

CRN 16669-27-5
CMF C26 H50 O2



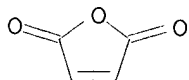
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 112:199360

L89 ANSWER 78 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 124912-72-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating, sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 110171-93-2

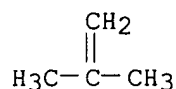
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

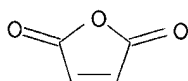
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:235811

REFERENCE 2: 124:88367

REFERENCE 3: 112:58896

L89 ANSWER 79 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 124036-73-3 REGISTRY

CN 2,5-Furandione, polymer with 2,2'-[1,2-ethanediylbis(oxymethylene)]bis[oxirane] and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,2'-[1,2-ethanediylbis(oxymethylene)]bis[oxirane], 2,5-furandione, sodium salt (9CI)

CN Oxirane, 2,2'-[1,2-ethanediylbis(oxymethylene)]bis-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C8 H14 O4 . C4 H8 . C4 H2 O3)x . x Na

PCT Epoxy resin, Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 118825-74-4

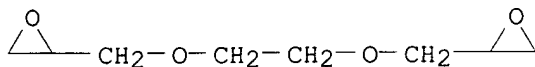
CMF (C8 H14 O4 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 2224-15-9

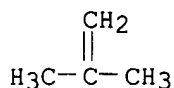
CMF C8 H14 O4



CM 3

CRN 115-11-7

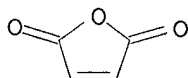
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:281573

REFERENCE 2: 112:78923

L89 ANSWER 80 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 123714-12-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with dodecyl 2-propenoate and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and dodecyl
2-propenoate, sodium salt (9CI)CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and dodecyl
2-propenoate, sodium saltCN 2-Butenedioic acid (Z)-, polymer with dodecyl 2-propenoate and
2-methyl-1-propene, sodium saltCN 2-Propenoic acid, dodecyl ester, polymer with (2Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt (9CI)CN 2-Propenoic acid, dodecyl ester, polymer with (Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt

OTHER NAMES:

CN Dodecyl acrylate-isobutylene-maleic acid copolymer sodium salt

FS STEREOSEARCH

MF (C15 H28 O2 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 123714-11-4

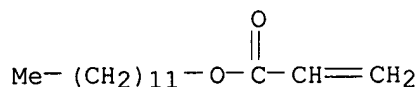
CMF (C15 H28 O2 . C4 H8 . C4 H4 O4)x

CCI PMS

CM 2

CRN 2156-97-0

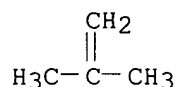
CMF C15 H28 O2



CM 3

CRN 115-11-7

CMF C4 H8

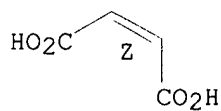


CM 4

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:235168

REFERENCE 2: 111:216030

L89 ANSWER 81 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 123714-10-3 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 3-methyl-1-butene and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Butene, 3-methyl-, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Butene, 3-methyl-, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and 3-methyl-1-butene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and 3-methyl-1-butene, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 3-methyl-1-butene and 2-methyl-1-propene, sodium salt

OTHER NAMES:

CN .alpha.-Isoamylene-isobutylene-maleic acid copolymer sodium salt

FS STEREOSEARCH

MF (C5 H10 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

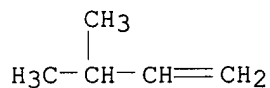
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 123714-09-0
CMF (C5 H10 . C4 H8 . C4 H4 O4)x
CCI PMS

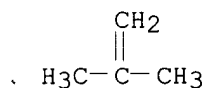
CM 2

CRN 563-45-1
CMF C5 H10



CM 3

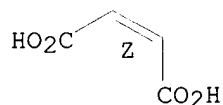
CRN 115-11-7
CMF C4 H8



CM 4

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:235168

REFERENCE 2: 111:216030

L89 ANSWER 82 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 122197-21-1 REGISTRY

CN 2-Butenedioic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2-butenedioic acid (9CI)

MF (C4 H8 . C4 H4 O4)x

CI PMS

PCT Polyolefin, Polyvinyl

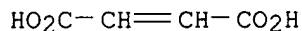
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 6915-18-0

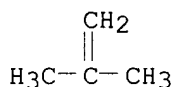
CMF C4 H4 O4



CM 2

CRN 115-11-7

CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:204363

REFERENCE 2: 111:67800

L89 ANSWER 83 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 121510-62-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate and 2,5-furandione, ammonium salt (9CI)

CN 2,5-Furandione, polymer with dodecyl 2-methyl-2-propenoate and 2-methyl-1-propene, ammonium salt (9CI)

MF (C16 H30 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 103849-62-3

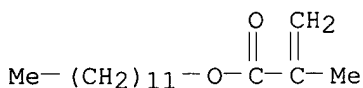
CMF (C16 H30 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 142-90-5

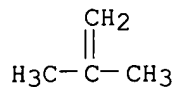
CMF C16 H30 O2



CM 3

CRN 115-11-7

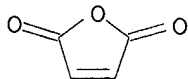
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 111:41918

L89 ANSWER 84 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 121367-79-1 REGISTRY

CN 2-Butenedioic acid, monosodium salt, polymer with 2-methyl-1-propene (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with sodium hydrogen 2-butenedioate (9CI)

MF (C4 H8 . C4 H4 O4 . Na) x

CI PMS

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 44670-32-8 (6915-18-0)

CMF C4 H4 O4 . Na

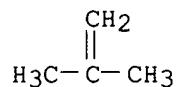


● Na

CM 2

CRN 115-11-7

CMF C4 H8



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:170409

REFERENCE 2: 113:31788

REFERENCE 3: 111:31242

L89 ANSWER 85 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 117189-24-9 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, lithium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, lithium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x Li

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

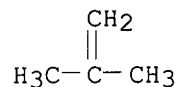
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

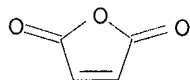
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:195111

L89 ANSWER 86 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-85-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2,2'-oxybis[ethanol], sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2,2'-oxybis[ethanol], sodium salt (9CI)

CN Ethanol, 2,2'-oxybis-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C4 H10 O3 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

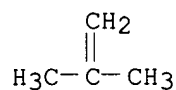
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-84-9
CMF (C4 H10 O3 . C4 H8 . C4 H2 O3)x
CCI PMS

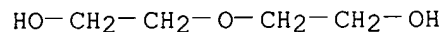
CM 2

CRN 115-11-7
CMF C4 H8



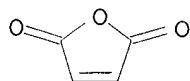
CM 3

CRN 111-46-6
CMF C4 H10 O3



CM 4

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:56499

L89 ANSWER 87 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-83-8 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2,3-propanetriol,
sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2,3-Propanetriol, polymer with 2,5-furandione and 2-methyl-1-propene,
sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2,3-propanetriol,
sodium salt (9CI)

OTHER NAMES:

CN Isobutylene-glycerol-maleic anhydride copolymer sodium salt

MF (C4 H8 . C4 H2 O3 . C3 H8 O3)x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-82-7

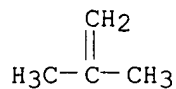
CMF (C4 H8 . C4 H2 O3 . C3 H8 O3)x

CCI PMS

CM 2

CRN 115-11-7

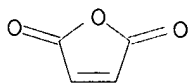
CMF C4 H8



CM 3

CRN 108-31-6

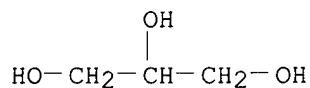
CMF C4 H2 O3



CM 4

CRN 56-81-5

CMF C3 H8 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:35939

REFERENCE 2: 109:56499

L89 ANSWER 88 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-82-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2,3-propanetriol
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2,3-Propanetriol, polymer with 2,5-furandione and 2-methyl-1-propene
(9CI)CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2,3-propanetriol
(9CI)

MF (C4 H8 . C4 H2 O3 . C3 H8 O3)x

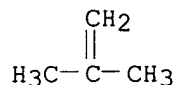
CI PMS, COM

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

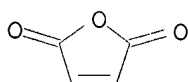
CM 1

CRN 115-11-7
CMF C4 H8



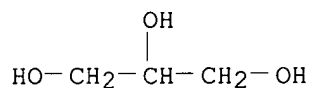
CM 2

CRN 108-31-6
CMF C4 H2 O3



CM 3

CRN 56-81-5
CMF C3 H8 O3



L89 ANSWER 89 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-81-6 REGISTRY

CN 2,5-Furandione, polymer with 1,4-butanediol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4-Butanediol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 1,4-butanediol and 2,5-furandione, sodium salt (9CI)

MF (C4 H10 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

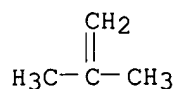
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-80-5
CMF (C4 H10 O2 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

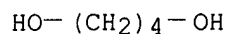
CRN 115-11-7
CMF C4 H8



CM 3

CRN 110-63-4

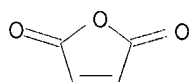
CMF C4 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:56499

L89 ANSWER 90 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-79-2 REGISTRY

CN 2,5-Furandione, polymer with 1,2-ethanediol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Ethanediol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 1,2-ethanediol and 2,5-furandione, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C2 H6 O2)x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-78-1

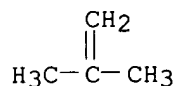
CMF (C4 H8 . C4 H2 O3 . C2 H6 O2)x

CCI PMS

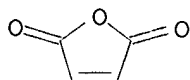
CM 2

CRN 115-11-7

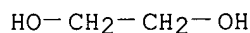
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3

CM 4

CRN 107-21-1
CMF C2 H6 O21 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:56499

L89 ANSWER 91 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-77-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2-propanediol,
sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Propanediol, polymer with 2,5-furandione and 2-methyl-1-propene,
sodium salt (9CI)CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2-propanediol,
sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C3 H8 O2)x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

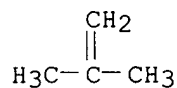
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-76-9
CMF (C4 H8 . C4 H2 O3 . C3 H8 O2)x
CCI PMS

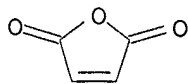
CM 2

CRN 115-11-7
CMF C4 H8

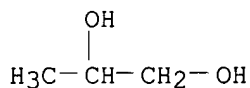
CM 3

CRN 108-31-6

CMF C4 H2 O3



CM 4

 CRN 57-55-6
 CMF C3 H8 O2

 1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:56499

L89 ANSWER 92 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 114783-38-9 REGISTRY

 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and methyl
 2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and methyl
 2-propenoate, ammonium salt (9CI)

 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and methyl
 2-propenoate, ammonium salt

 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and methyl
 2-propenoate, ammonium salt

 CN 2-Propenoic acid, methyl ester, polymer with (2Z)-2-butenedioic acid and
 2-methyl-1-propene, ammonium salt (9CI)

 CN 2-Propenoic acid, methyl ester, polymer with (Z)-2-butenedioic acid and
 2-methyl-1-propene, ammonium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O2 . C4 H4 O4)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 112340-07-5

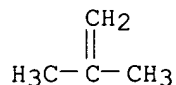
CMF (C4 H8 . C4 H6 O2 . C4 H4 O4)x

CCI .PMS

CM 2

CRN 115-11-7

CMF C4 H8

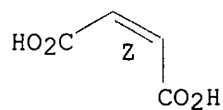


CM 3

CRN 110-16-7

CMF C4 H4 O4

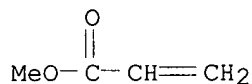
Double bond geometry as shown.



CM 4

CRN 96-33-3

CMF C4 H6 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 108:229742

L89 ANSWER 93 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 113736-49-5 REGISTRY

CN 2,5-Furandione, polymer with 1,3-dioxan-2-one and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Dioxan-2-one, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 1,3-dioxan-2-one and 2,5-furandione, sodium salt (9CI)

MF (C4 H8 . C4 H6 O3 . C4 H2 O3)x . x Na

PCT Polycarbonate, Polycarbonate formed, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 113736-48-4

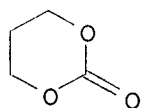
CMF (C4 H8 . C4 H6 O3 . C4 H2 O3)x

CCI PMS

CM 2

CRN 2453-03-4

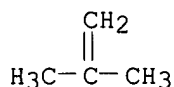
CMF C4 H6 O3



CM 3

CRN 115-11-7

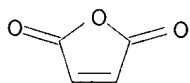
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:45364

REFERENCE 2: 108:156498

L89 ANSWER 94 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 113095-14-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, calcium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, calcium salt (9CI)

OTHER NAMES:

CN Isobutene-maleic anhydride copolymer calcium salt

CN Isobutylene-maleic anhydride copolymer calcium salt

MF (C4 H8 . C4 H2 O3)x . x Ca

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

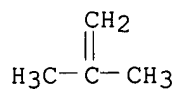
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

REFERENCE 2: 108:117838

REFERENCE 3: 108:113802

L89 ANSWER 95 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 112902-87-1 REGISTRY

CN 2-Propenoic acid, methyl ester, polymer with 2,5-furandione and
2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-propenoate,
ammonium salt (9CI)CN 2,5-Furandione, polymer with 2-methyl-1-propene and methyl 2-propenoate,
ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride-methyl acrylate copolymer ammonium salt

MF (C4 H8 . C4 H6 O2 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 53367-76-3

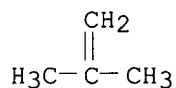
CMF (C4 H8 . C4 H6 O2 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

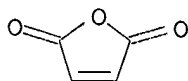
CMF C4 H8



CM 3

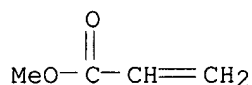
CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 96-33-3
CMF C4 H6 O2



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 108:169335

REFERENCE 2: 108:152307

REFERENCE 3: 108:77367

L89 ANSWER 96 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 112340-08-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and methyl
2-propenoate, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and methyl
2-propenoate, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and methyl
2-propenoate, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and methyl
2-propenoate, sodium salt

CN 2-Propenoic acid, methyl ester, polymer with (2Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt (9CI)

CN 2-Propenoic acid, methyl ester, polymer with (Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt

OTHER NAMES:

CN Isobutylene-methacrylic acid-methyl acrylate copolymer sodium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O2 . C4 H4 O4)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 112340-07-5

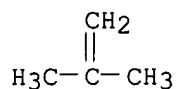
CMF (C4 H8 . C4 H6 O2 . C4 H4 O4)x

CCI PMS

CM 2

CRN 115-11-7

CMF C4 H8

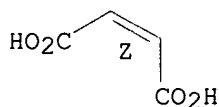


CM 3

CRN 110-16-7

CMF C4 H4 O4

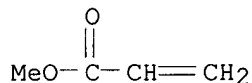
Double bond geometry as shown.



CM 4

CRN 96-33-3

CMF C4 H6 O2



8 REFERENCES IN FILE CA (1967 TO DATE)

8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 110:174689

REFERENCE 2: 109:39532

REFERENCE 3: 108:159082

REFERENCE 4: 108:152091

REFERENCE 5: 108:151781

REFERENCE 6: 108:114281

REFERENCE 7: 108:61428

REFERENCE 8: 108:57983

L89 ANSWER 97 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 111984-95-3 REGISTRY

CN 2-Propenoic acid, 2-methyl-, sodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with sodium 2-methyl-2-propenoate (9CI)

MF (C4 H8 . C4 H6 O2 . Na)x

CI PMS

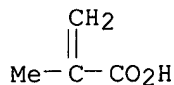
PCT Polyacrylic, Polyolefin

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

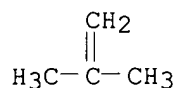
CRN 5536-61-8 (79-41-4)
 CMF C4 H6 O2 . Na



● Na

CM 2

CRN 115-11-7
 CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:153711

REFERENCE 2: 108:17788

L89 ANSWER 98 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 111575-31-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with butanedioic acid and
 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (Z)-2-butenedioic
 acid, ammonium salt

CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (2Z)-2-butenedioic
 acid, ammonium salt (9CI)

CN 2-Butenedioic acid (Z)-, polymer with butanedioic acid and
 2-methyl-1-propene, ammonium salt

CN Butanedioic acid, polymer with (2Z)-2-butenedioic acid and
 2-methyl-1-propene, ammonium salt (9CI)

CN Butanedioic acid, polymer with (Z)-2-butenedioic acid and
 2-methyl-1-propene, ammonium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O4 . C4 H4 O4)x . x H3 N

PCT Polyolefin, Polyether, Polyvinyl

SR CA

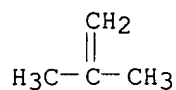
LC STN Files: CA, CAPLUS

CM 1

CRN 111575-30-5
 CMF (C4 H8 . C4 H6 O4 . C4 H4 O4)x
 CCI PMS

CM 2

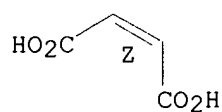
CRN 115-11-7
CMF C4 H8



CM 3

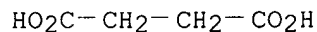
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 110-15-6
CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:237584

L89 ANSWER 99 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 111575-30-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with butanedioic acid and
2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (Z)-2-butenedioic acid

CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (2Z)-2-butenedioic acid (9CI)

CN 2-Butenedioic acid (Z)-, polymer with butanedioic acid and 2-methyl-1-propene

CN Butanedioic acid, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene (9CI)

CN Butanedioic acid, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O4 . C4 H4 O4)x

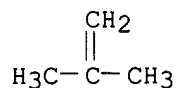
CI PMS, COM

PCT Polyolefin, Polyother, Polyvinyl

SR CA

CM 1

CRN 115-11-7
CMF C4 H8

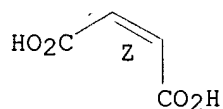


CM 2

CRN 110-16-7

CMF C4 H4 O4

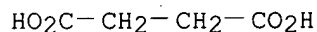
Double bond geometry as shown.



CM 3

CRN 110-15-6

CMF C4 H6 O4



L89 ANSWER 100 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 110171-93-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating (9CI)

OTHER NAMES:

CN IM 10

CN Isobam 10

CN Isobutene-maleic anhydride alternating copolymer

CN Isobutylene-maleic anhydride alternating copolymer

MF (C4 H8 . C4 H2 O3) x

CI PMS, COM

PCT Polyolefin, Polyvinyl

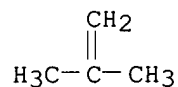
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

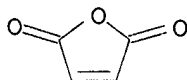
CRN 115-11-7

CMF C4 H8



CM 2

CRN 108-31-6
CMF C4 H2 O3



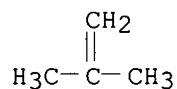
56 REFERENCES IN FILE CA (1967 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
56 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:110030
REFERENCE 2: 137:21022
REFERENCE 3: 136:38330
REFERENCE 4: 136:38329
REFERENCE 5: 136:38091
REFERENCE 6: 135:378797
REFERENCE 7: 135:273403
REFERENCE 8: 135:243049
REFERENCE 9: 135:181106
REFERENCE 10: 134:42841

L89 ANSWER 101 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 109800-39-7 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, graft (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, graft (9CI)
MF (C4 H8 . C4 H2 O3) x
CI PMS
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

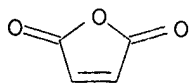
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 108-31-6
CMF C4 H2 O3



3 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:33940

REFERENCE 2: 107:155890

REFERENCE 3: 107:80816

L89 ANSWER 102 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 109180-43-0 REGISTRY

CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with 2,5-furandione
 and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with docosyl 2-methyl-2-propenoate and
 2,5-furandione, ammonium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and docosyl
 2-methyl-2-propenoate, ammonium salt (9CI)

MF (C26 H50 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 103875-04-3

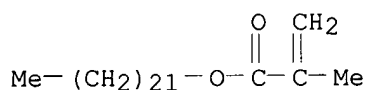
CMF (C26 H50 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 16669-27-5

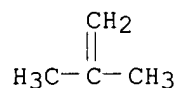
CMF C26 H50 O2



CM 3

CRN 115-11-7

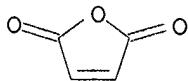
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 107:42971

L89 ANSWER 103 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 107162-97-0 REGISTRY

CN 2,5-Furandione, polymer with ethenol and 2-methyl-1-propene, ammonium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with ethenol and 2,5-furandione, ammonium
salt (9CI)

CN Ethenol, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt
(9CI)

MF (C4 H8 . C4 H2 O3 . C2 H4 O)x . x H3 N

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 52641-05-1

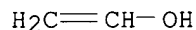
CMF (C4 H8 . C4 H2 O3 . C2 H4 O)x

CCI PMS

CM 2

CRN 557-75-5

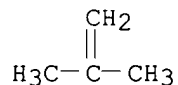
CMF C2 H4 O



CM 3

CRN 115-11-7

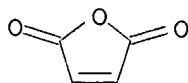
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



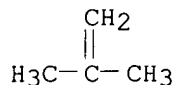
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:104086

L89 ANSWER 104 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 106818-17-1 REGISTRY
CN 2,5-Furandione, dihydro-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with dihydro-2,5-furandione (9CI)
OTHER NAMES:
CN Isobutylene-succinic anhydride copolymer
MF (C4 H8 . C4 H4 O3)x
CI PMS
PCT Polyolefin, Polyother
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

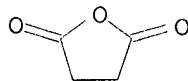
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 108-30-5
CMF C4 H4 O3



6 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:290110

REFERENCE 2: 130:41972

REFERENCE 3: 129:205088

REFERENCE 4: 125:118960

REFERENCE 5: 124:118614

REFERENCE 6: 106:89916

L89 ANSWER 105 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 105062-76-8 REGISTRY

CN 2-Propenoic acid, methyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-propenoate, sodium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and methyl 2-propenoate, sodium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride-methyl acrylate copolymer sodium salt

MF (C4 H8 . C4 H6 O2 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 53367-76-3

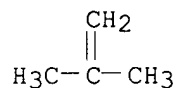
CMF (C4 H8 . C4 H6 O2 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

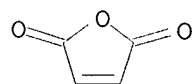
CMF C4 H8



CM 3

CRN 108-31-6

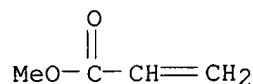
CMF C4 H2 O3



CM 4

CRN 96-33-3

CMF C4 H6 O2



9 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

9 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:61256

REFERENCE 2: 112:218409
 REFERENCE 3: 111:196709
 REFERENCE 4: 110:96804
 REFERENCE 5: 108:39722
 REFERENCE 6: 107:177318
 REFERENCE 7: 107:176762
 REFERENCE 8: 107:117046
 REFERENCE 9: 105:192455

L89 ANSWER 106 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 103193-63-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with disodium (2Z)-2-butenedioate and 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and disodium (2Z)-2-butenedioate (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and (Z)-disodium 2-butenedioate

CN 2-Butenedioic acid (2Z)-, disodium salt, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene (9CI)

CN 2-Butenedioic acid (Z)-, disodium salt, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene

CN 2-Butenedioic acid (Z)-, polymer with (Z)-disodium 2-butenedioate and 2-methyl-1-propene

OTHER NAMES:

CN Isobutylene-maleic acid-sodium maleate copolymer

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4 . C4 H4 O4 . 2 Na)x

CI PMS

PCT Polyolefin, Polyvinyl

SR CA

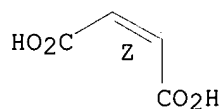
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 371-47-1 (110-16-7)

CMF C4 H4 O4 . 2 Na

Double bond geometry as shown.

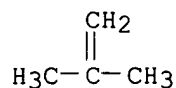


2 Na

CM 2

CRN 115-11-7

CMF C4 H8

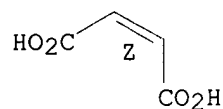


CM 3

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:13001

REFERENCE 2: 105:44239

L89 ANSWER 107 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 101944-31-4 REGISTRY

CN 2-Propenoic acid, 2-methyl-, sodium salt, homopolymer, compd. with
2-methyl-1-propene (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, compd. with sodium 2-methyl-2-propenoate homopolymer
(1:1) (9CI)

MF C4 H8 . (C4 H6 O2 . Na)x

PCT Polyacrylic

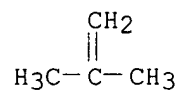
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7

CMF C4 H8



CM 2

CRN 25086-62-8

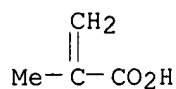
CMF (C4 H6 O2 . Na)x

CCI PMS

CM 3

CRN 5536-61-8 (79-41-4)

CMF C4 H6 O2 . Na



● Na

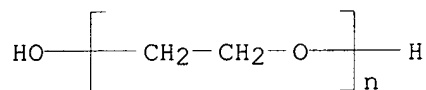
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:202345

L89 ANSWER 108 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 101706-97-2 REGISTRY
CN 2,5-Furandione, polymer with 1-propene, ester with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, polymer with 2,5-furandione, ester with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
MF (C4 H2 O3 . C3 H6)x . x (C2 H4 O)n H2 O
PCT Polyether, Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS

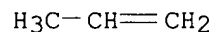


CM 2

CRN 25722-45-6
CMF (C4 H2 O3 . C3 H6)x
CCI PMS

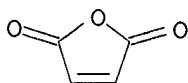
CM 3

CRN 115-07-1
CMF C3 H6



CM 4

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:169108

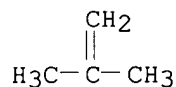
L89 ANSWER 109 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 98701-96-3 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, ammonium magnesium salt
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ammonium magnesium salt
(9CI)
OTHER NAMES:
CN Isobutylene-maleic anhydride copolymer ammonium magnesium salt
MF (C4 H8 . C4 H2 O3)x . x H3 N . x Mg
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:162097

L89 ANSWER 110 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 98701-94-1 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, calcium sodium salt (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, calcium sodium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer calcium sodium salt

MF (C4 H8 . C4 H2 O3)x . x Ca . x Na

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

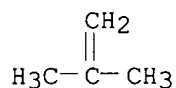
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

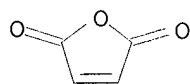
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

REFERENCE 2: 103:162097

L89 ANSWER 111 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 97939-57-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, compd. with 2,2',2''-nitrilotris[ethanol] (9CI)

CN Ethanol, 2,2',2''-nitrilotris-, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

MF C6 H15 N O3 . x (C4 H8 . C4 H2 O3)x

PCT Polyolefin, Polyvinyl

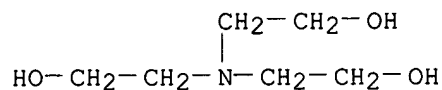
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 26426-80-2

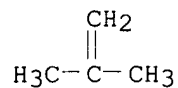
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

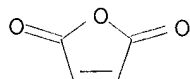
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:107497

L89 ANSWER 112 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 97696-05-4 REGISTRY

CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene, sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid, sodium salt
(9CI)

MF (C4 H8 . C4 H6 O2)x . x Na

PCT Polyacrylic, Polyolefin

SR CA

LC STN Files: CA, CAPLUS

CM 1

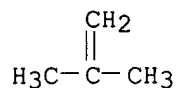
CRN 54406-39-2

CMF (C4 H8 . C4 H6 O2)x

CCI PMS

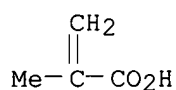
CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 79-41-4
CMF C4 H6 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:107442

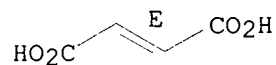
REFERENCE 2: 103:73674

L89 ANSWER 113 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 96451-27-3 REGISTRY
CN 2-Butenedioic acid (2E)-, disodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with (E)-disodium 2-butenedioate (9CI)
CN 2-Butenedioic acid (E)-, disodium salt, polymer with 2-methyl-1-propene
FS STEREOSEARCH
MF (C4 H8 . C4 H4 O4 . 2 Na)x
CI PMS
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 17013-01-3 (110-17-8)
CMF C4 H4 O4 . 2 Na

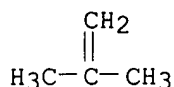
Double bond geometry as shown.



● 2 Na

CM 2

CRN 115-11-7
CMF C4 H8



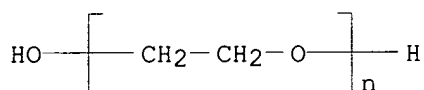
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:208275

L89 ANSWER 114 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 94558-62-0 REGISTRY
CN 2-Butenedioic acid (2Z)-, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Butenedioic acid (Z)-, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
CN Ethene, polymer with (2Z)-2-butenedioic acid and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
CN Ethene, polymer with (Z)-2-butenedioic acid and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (2Z)-2-butenedioic acid and ethene (9CI)
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (Z)-2-butenedioic acid and ethene
FS STEREOSEARCH
MF (C4 H4 O4 . (C2 H4 O)n H2 O . C2 H4)x
CI PMS
PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

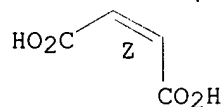
CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 74-85-1
CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:62716

L89 ANSWER 115 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 91778-14-2 REGISTRY

CN 2-Propenoic acid, polymer with 2,5-furandione and 2-methyl-1-propene,
sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2-propenoic acid,
sodium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2-propenoic acid,
sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C3 H4 O2)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 91778-13-1

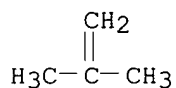
CMF (C4 H8 . C4 H2 O3 . C3 H4 O2)x

CCI PMS

CM 2

CRN 115-11-7

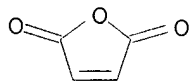
CMF C4 H8



CM 3

CRN 108-31-6

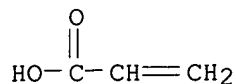
CMF C4 H2 O3



CM 4

CRN 79-10-7

CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:113822

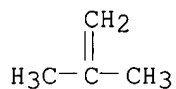
L89 ANSWER 116 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 91778-04-0 REGISTRY
CN 2,5-Furandione, polymer with methoxyethene and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methoxyethene, sodium salt (9CI)
CN Ethene, methoxy-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
MF (C4 H8 . C4 H2 O3 . C3 H6 O)x . x Na
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 91778-03-9
CMF (C4 H8 . C4 H2 O3 . C3 H6 O)x
CCI PMS

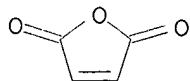
CM 2

CRN 115-11-7
CMF C4 H8



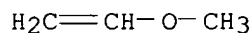
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 107-25-5
CMF C3 H6 O



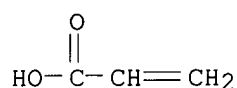
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:113821

L89 ANSWER 117 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 84420-43-9 REGISTRY
 CN Butanedioic acid, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), mono-2-propenoate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with butanedioic acid, mono-2-propenoate (9CI)
 MF (C4 H6 O4 . (C2 H4 O)n H2 O)x . C3 H4 O2
 CI COM
 PCT Polyester, Polyester formed, Polyether

CM 1

CRN 79-10-7
 CMF C3 H4 O2

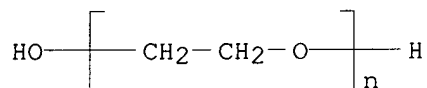


CM 2

CRN 9041-79-6
 CMF (C4 H6 O4 . (C2 H4 O)n H2 O)x
 CCI PMS

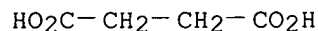
CM 3

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



CM 4

CRN 110-15-6
 CMF C4 H6 O4



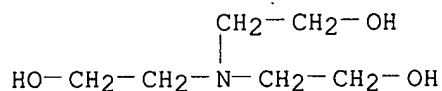
L89 ANSWER 118 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 78537-83-4 REGISTRY
 CN 2,5-Furandione, polymer with 1-propene trimer, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, trimer, polymer with 2,5-furandione, compd. with 2,2',2''-nitrilotris[ethanol] (9CI)
 CN Ethanol, 2,2',2''-nitrilotris-, compd. with 2,5-furandione polymer with 1-propene trimer (9CI)
 MF C6 H15 N O3 . x (C4 H2 O3 . (C3 H6)3)x
 PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 78537-82-3

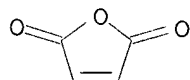
CMF (C4 H2 O3 . (C3 H6) 3) x

CCI PMS

CM 3

CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 13987-01-4

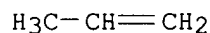
CMF (C3 H6) 3

CCI PMS

CM 5

CRN 115-07-1

CMF C3 H6



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 95:101406

L89 ANSWER 119 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 77045-94-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, potassium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, potassium salt
(9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, potassium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, potassium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4) x . x K

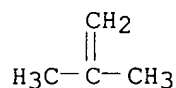
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 28327-80-2
CMF (C4 H8 . C4 H4 O4)x
CCI PMS

CM 2

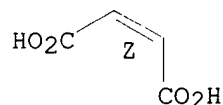
CRN 115-11-7
CMF C4 H8



CM 3

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:38079

REFERENCE 2: 111:41540

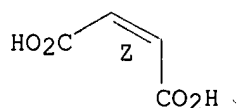
REFERENCE 3: 94:192796

L89 ANSWER 120 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 76796-48-0 REGISTRY
CN 2-Butenedioic acid (2Z)-, monosodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with (Z)-sodium hydrogen 2-butenedioate
(9CI)
CN 2-Butenedioic acid (Z)-, monosodium salt, polymer with 2-methyl-1-propene
FS STEREOSEARCH
MF (C4 H8 . C4 H4 O4 . Na)x
CI PMS
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 3105-55-3 (110-16-7)
CMF C4 H4 O4 . Na

Double bond geometry as shown.

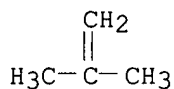


● Na

CM 2

CRN 115-11-7

CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 118:29891

REFERENCE 2: 94:112543

L89 ANSWER 121 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 76465-84-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2,4,4-trimethylpentene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2,4,4-trimethylpentene, ammonium salt (9CI)

CN Pentene, 2,4,4-trimethyl-, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)

MF (C8 H16 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyether, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 67669-76-5

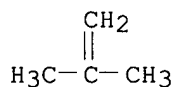
CMF (C8 H16 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

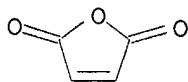
CRN 115-11-7

CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3

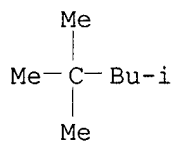


CM 4

CRN 25167-70-8
CMF C8 H16
CCI IDS

CM 5

CRN 540-84-1
CMF C8 H18



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:74760

L89 ANSWER 122 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 71015-79-7 REGISTRY

CN 1H-Pyrrole-2,5-dione, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1H-pyrrole-2,5-dione, ammonium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1H-pyrrole-2,5-dione, ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride-maleimide copolymer ammonium salt

MF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

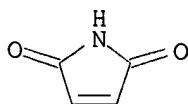
LC STN Files: CA, CAPLUS

CM 1

CRN 33154-82-4
CMF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x
CCI PMS

CM 2

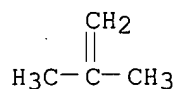
CRN 541-59-3
CMF C4 H3 N O2



CM 3

CRN 115-11-7

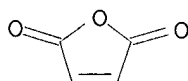
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:38348

REFERENCE 2: 91:75311

L89 ANSWER 123 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 70739-68-3 REGISTRY

CN 1H-Pyrrole-2,5-dione, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1H-pyrrole-2,5-
 dione, sodium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1H-pyrrole-2,5-dione,
 sodium salt (9CI)

MF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 33154-82-4

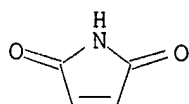
CMF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x

CCI PMS

CM 2

CRN 541-59-3

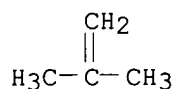
CMF C4 H3 N O2



CM 3

CRN 115-11-7

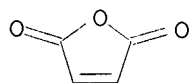
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 91:58132

L89 ANSWER 124 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 70595-19-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-ethylhexyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-ethylhexyl ester, ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer 2-ethylhexyl ester ammonium salt

MF C8 H18 O . x (C4 H8 . C4 H2 O3)x . x H3 N

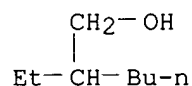
PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 104-76-7

CMF C8 H18 O



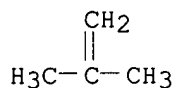
CM 2

CRN 26426-80-2

CMF (C4 H8 . C4 H2 O3)x
CCI PMS

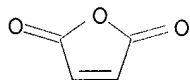
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 91:41018

L89 ANSWER 125 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 70595-18-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-butoxyethyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-butoxyethyl ester, ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer 2-butoxyethyl ester ammonium salt

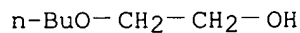
MF C6 H14 O2 . x (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 111-76-2
CMF C6 H14 O2



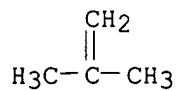
CM 2

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 3

CRN 115-11-7

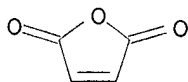
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 91:41018

L89 ANSWER 126 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 69506-52-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, ammonium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, ammonium salt
(9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, ammonium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, ammonium salt

OTHER NAMES:

CN Isobutylene-maleic acid copolymer ammonium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 28327-80-2

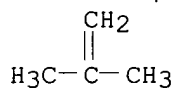
CMF (C4 H8 . C4 H4 O4)x

CCI PMS

CM 2

CRN 115-11-7

CMF C4 H8

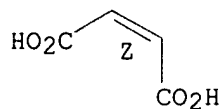


CM 3

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



6 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:288875

REFERENCE 2: 121:191466

REFERENCE 3: 112:38079

REFERENCE 4: 111:216030

REFERENCE 5: 108:229742

REFERENCE 6: 90:138771

L89 ANSWER 127 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 68573-63-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, potassium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, potassium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x K

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

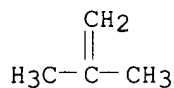
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

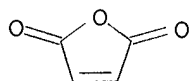
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:195111

REFERENCE 2: 103:107497

REFERENCE 3: 102:15030

REFERENCE 4: 90:10314

L89 ANSWER 128 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 67298-43-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, butyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, butyl ester, ammonium salt (9CI)

MF C4 H10 O . x (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 71-36-3

CMF C4 H10 O

H₃C-CH₂-CH₂-CH₂-OH

CM 2

CRN 26426-80-2

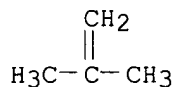
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

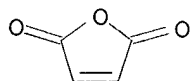
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 89:111734

L89 ANSWER 129 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 65395-07-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, magnesium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer magnesium salt

MF (C4 H8 . C4 H2 O3)x . x Mg

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

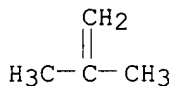
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

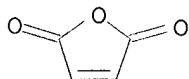
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:32542

REFERENCE 2: 92:219260

REFERENCE 3: 88:39081

L89 ANSWER 130 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 65395-06-4 REGISTRY

CN 2,5-Furandione, polymer with 1,3-butadiene and 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, polymer with 2,5-furandione and 2-methyl-1-propene, magnesium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 1,3-butadiene and 2,5-furandione, magnesium salt (9CI)

MF (C4 H8 . C4 H6 . C4 H2 O3)x . x Mg

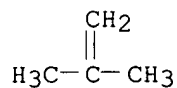
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 33518-77-3
CMF (C4 H8 . C4 H6 . C4 H2 O3)x
CCI PMS

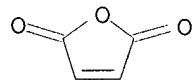
CM 2

CRN 115-11-7
CMF C4 H8



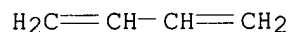
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 106-99-0
CMF C4 H6



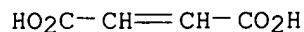
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 88:39081

L89 ANSWER 131 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 64111-93-9 REGISTRY
CN 2-Butenedioic acid, disodium salt, polymer with 2-methyl-1-propene (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with disodium 2-butenedioate (9CI)
MF (C4 H8 . C4 H4 O4 . 2 Na)x
CI PMS
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 54060-75-2 (6915-18-0)
CMF C4 H4 O4 . 2 Na

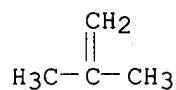


●2 Na

CM 2

CRN 115-11-7

CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:154576

REFERENCE 2: 87:125349

L89 ANSWER 132 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 63066-88-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, monoammonium salt, polymer with
2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (Z)-ammonium hydrogen 2-butenedioate

CN 1-Propene, 2-methyl-, polymer with ammonium hydrogen (2Z)-2-butenedioate
(9CI)

CN 2-Butenedioic acid (Z)-, monoammonium salt, polymer with
2-methyl-1-propene

OTHER NAMES:

CN Ammonium maleate-isobutylene copolymer

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4 . H3 N)x

CI PMS

PCT Polyolefin, Polyvinyl

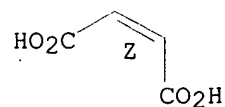
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 44742-89-4 (110-16-7)

CMF C4 H4 O4 . H3 N

Double bond geometry as shown.

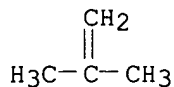


NH₃

CM 2

CRN 115-11-7

CMF C4 H8



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:81623

REFERENCE 2: 128:41646

REFERENCE 3: 87:24379

L89 ANSWER 133 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN. 62066-58-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 1-propene, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with (2Z)-2-butenedioic acid, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium salt (9CI)CN 1-Propene, polymer with (Z)-2-butenedioic acid, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium saltCN 2-Butenedioic acid (Z)-, polymer with 1-propene, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium saltCN Ethanol, 2,2',2''-nitrilotris-, compd. with (2Z)-2-butenedioic acid
polymer with 1-propene, calcium sodium salt (9CI)CN Ethanol, 2,2',2''-nitrilotris-, compd. with (Z)-2-butenedioic acid polymer
with 1-propene, calcium sodium salt

OTHER NAMES:

CN Maleic acid-propylene copolymer calcium sodium triethanolamine salt

FS STEREOSEARCH

MF C6 H15 N O3 . x (C4 H4 O4 . C3 H6)x . x Ca . x Na

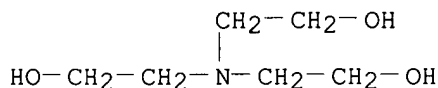
PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 38809-92-6

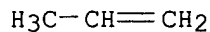
CMF (C4 H4 O4 . C3 H6)x

CCI PMS

CM 3

CRN 115-07-1

CMF C3 H6

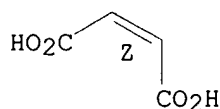


CM 4

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 86:123123

L89 ANSWER 134 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 61577-20-6 REGISTRY

CN 2,5-Furandione, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with ethene and 2,5-furandione (9CI)

MF (C4 H2 O3 . (C2 H4 O)n H2 O . C2 H4)x

CI PMS

PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

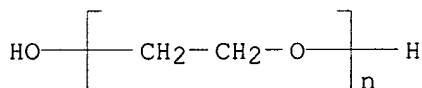
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

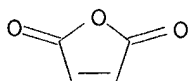
CCI PMS



CM 2

CRN 108-31-6

CMF C4 H2 O3



CM 3

CRN 74-85-1

CMF C2 H4



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:92327

REFERENCE 2: 86:30513

L89 ANSWER 135 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 61389-90-0 REGISTRY

CN 2-Propenamide, N,N'-methylenebis-, polymer with 2,5-furandione and
2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and N,N'-methylenebis[2-
propenamide], ammonium salt (9CI)CN 2,5-Furandione, polymer with N,N'-methylenebis[2-propenamide] and
2-methyl-1-propene, ammonium salt (9CI)

MF (C7 H10 N2 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 61389-89-7

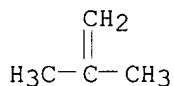
CMF (C7 H10 N2 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

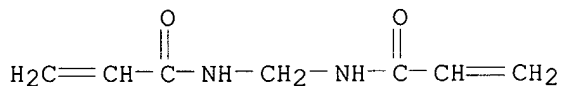
CMF C4 H8



CM 3

CRN 110-26-9

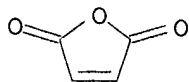
CMF C7 H10 N2 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 86:18677

L89 ANSWER 136 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 60098-62-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, octyl ester,
lithium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, octyl ester,
lithium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, octyl ester,
lithium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, octyl ester,
lithium salt

FS STEREOSEARCH

MF C8 H18 O . x (C4 H8 . C4 H4 O4)x . x Li

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 111-87-5

CMF C8 H18 O

HO-(CH₂)₇-Me

CM 2

CRN 28327-80-2

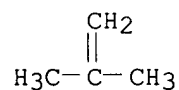
CMF (C4 H8 . C4 H4 O4)x

CCI PMS

CM 3

CRN 115-11-7

CMF C4 H8

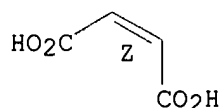


CM 4

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 137 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 60098-61-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, methyl ester, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, methyl ester, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, methyl ester, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, methyl ester, sodium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x . x C H4 O . x Na

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 67-56-1

CMF C H4 O

H₃C-OH

CM 2

CRN 28327-80-2

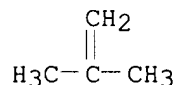
CMF (C4 H8 . C4 H4 O4)x

CCI PMS

CM 3

CRN 115-11-7

CMF C4 H8

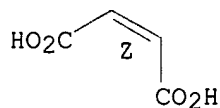


CM 4

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



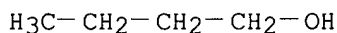
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 138 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 60098-60-4 REGISTRY
CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, butyl ester, ammonium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, butyl ester, ammonium salt (9CI)
CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, butyl ester, ammonium salt
CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, butyl ester, ammonium salt
FS STEREOSEARCH
MF C4 H10 O . x (C4 H8 . C4 H4 O4)x . x H3 N
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 71-36-3
CMF C4 H10 O

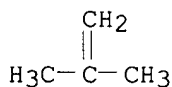


CM 2

CRN 28327-80-2
CMF (C4 H8 . C4 H4 O4)x
CCI PMS

CM 3

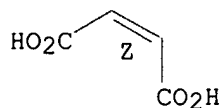
CRN 115-11-7
CMF C4 H8



CM 4

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



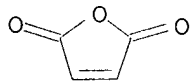
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 139 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 59931-03-2 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene trimer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, trimer, polymer with 2,5-furandione (9CI)
OTHER NAMES:
CN Maleic anhydride-triisobutylene copolymer
MF ((C4 H8)3 . C4 H2 O3)x
CI PMS
PCT Polyolefin, Polyvinyl

CM 1

CRN 108-31-6
CMF C4 H2 O3

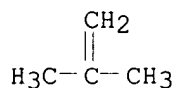


CM 2

CRN 7756-94-7
CMF (C4 H8)3
CCI PMS

CM 3

CRN 115-11-7
CMF C4 H8



L89 ANSWER 140 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 55199-87-6 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, methyl ester, sodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, methyl ester, sodium salt (9CI)
MF (C4 H8 . C4 H2 O3)x . x C H4 O . x Na
PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 67-56-1
CMF C H4 O

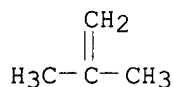
H₃C-OH

CM 2

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

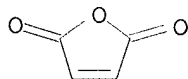
CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3



4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:71330

REFERENCE 2: 87:152946

REFERENCE 3: 85:125304

REFERENCE 4: 82:141102

L89 ANSWER 141 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 55031-88-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, disodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (Z)-disodium 2-butenedioate

CN 1-Propene, 2-methyl-, polymer with disodium (2Z)-2-butenedioate (9CI)

CN 2-Butenedioic acid (Z)-, disodium salt, polymer with 2-methyl-1-propene

OTHER NAMES:

CN Isobutylene-disodium maleate polymer

CN Isobutylene-sodium maleate copolymer

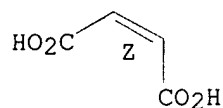
FS STEREOSEARCH
MF (C4 H8 . C4 H4 O4 . 2 Na)x
CI PMS
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 371-47-1 (110-16-7)

CMF C4 H4 O4 . 2 Na

Double bond geometry as shown.

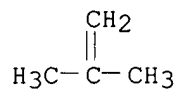


●2 Na

CM 2

CRN 115-11-7

CMF C4 H8



14 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:136641

REFERENCE 2: 135:79424

REFERENCE 3: 128:142133

REFERENCE 4: 127:235760

REFERENCE 5: 127:150291

REFERENCE 6: 124:297174

REFERENCE 7: 124:291656

REFERENCE 8: 122:316418

REFERENCE 9: 122:197069

REFERENCE 10: 121:141775

L89 ANSWER 142 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 54538-68-0 REGISTRY

CN 2,5-Furandione, polymer with 1,3-butadiene and 2-methyl-1-propene,
ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, polymer with 2,5-furandione and 2-methyl-1-propene,
ammonium salt (9CI)
CN 1-Propene, 2-methyl-, polymer with 1,3-butadiene and 2,5-furandione,
ammonium salt (9CI)

OTHER NAMES:

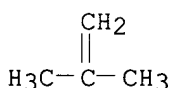
CN Butadiene-isobutene-maleic anhydride copolymer ammonium salt
MF (C4 H8 . C4 H6 . C4 H2 O3)x . x H3 N
PCT Polyolefin, Polyvinyl
LC STN Files: CA, CAPLUS

CM 1

CRN 33518-77-3
CMF (C4 H8 . C4 H6 . C4 H2 O3)x
CCI PMS

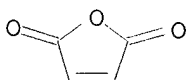
CM 2

CRN 115-11-7
CMF C4 H8



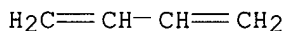
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 106-99-0
CMF C4 H6



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 82:113427

L89 ANSWER 143 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 54452-28-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1,3-butadiene and
2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, 2-methyl-, polymer with 2,5-furandione and
2-methyl-1-propene, ammonium salt (9CI)
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2-methyl-1,3-

butadiene, ammonium salt (9CI)

OTHER NAMES:

CN Isobutene-isoprene-maleic anhydride copolymer ammonium salt

MF (C5 H8 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 35502-98-8

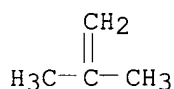
CMF (C5 H8 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

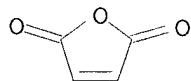
CMF C4 H8



CM 3

CRN 108-31-6

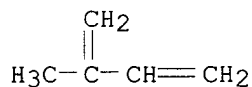
CMF C4 H2 O3



CM 4

CRN 78-79-5

CMF C5 H8



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 82:113427

L89 ANSWER 144 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 54406-39-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid (9CI)

OTHER NAMES:

CN Isobutene-methacrylic acid polymer

CN Isobutylene-methacrylic acid copolymer

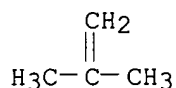
MF (C4 H8 . C4 H6 O2)x

CI PMS, COM
PCT Polyacrylic, Polyolefin
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7

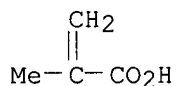
CMF C4 H8



CM 2

CRN 79-41-4

CMF C4 H6 O2



4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:296973

REFERENCE 2: 129:293780

REFERENCE 3: 105:88692

REFERENCE 4: 100:140955

L89 ANSWER 145 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 52032-17-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, ammonium salt (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ammonium salt (9CI)

OTHER NAMES:

CN Isobam 104

CN Isobam 110

CN Isobutene-maleic anhydride copolymer ammonium salt

CN Isobutene-maleic anhydride polymer ammonium salt

CN Isobutylene-maleic anhydride copolymer ammonium salt

CN Isobutylene-maleic anhydride polymer ammonium salt

MF (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER,
USPATFULL

CM 1

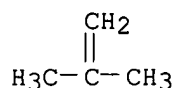
CRN 26426-80-2

CMF (C4 H8 . C4 H2 O3)x

CCI PMS

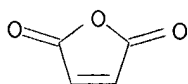
CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3



129 REFERENCES IN FILE CA (1967 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
129 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:109988
REFERENCE 2: 135:319720
REFERENCE 3: 134:374103
REFERENCE 4: 134:359566
REFERENCE 5: 134:245284
REFERENCE 6: 134:87972
REFERENCE 7: 134:73311
REFERENCE 8: 134:6843
REFERENCE 9: 133:297491
REFERENCE 10: 133:226672

L89 ANSWER 146 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 51772-79-3 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, copper(2+) salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, copper(2+) salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, copper(2+) salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, copper(2+) salt

OTHER NAMES:

CN Maleic acid-isobutylene polymer copper(II) salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x . x Cu

PCT Polyolefin, Polyvinyl

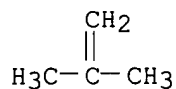
LC STN Files: CA, CAPLUS

CM 1

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 2

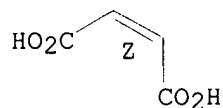
CRN 115-11-7
 CMF C4 H8



CM 3

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 81:26139

L89 ANSWER 147 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 39612-00-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt (9CI)

OTHER NAMES:

CN Isobutene-maleic anhydride copolymer sodium salt

CN Isobutene-maleic anhydride polymer sodium salt

CN Isobutylene-maleic anhydride copolymer sodium salt

CN KI Gel 210K-F2

DR 110650-70-9

MF (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

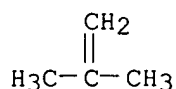
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 2

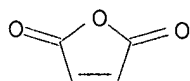
CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



114 REFERENCES IN FILE CA (1967 TO DATE)
 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 114 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:34605
 REFERENCE 2: 136:387540
 REFERENCE 3: 136:387536
 REFERENCE 4: 133:297491
 REFERENCE 5: 133:225428
 REFERENCE 6: 133:224468
 REFERENCE 7: 133:139952
 REFERENCE 8: 133:116175
 REFERENCE 9: 132:94365
 REFERENCE 10: 131:244758

L89 ANSWER 148 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 38531-22-5 REGISTRY

CN 2-Propenoic acid, polymer with ethene, compd. with 2,2',2''-
 nitrilotris[ethanol] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanol, 2,2',2''-nitrilotris-, compd. with ethene polymer with
 2-propenoic acid (9CI)

CN Ethene, polymer with 2-propenoic acid, compd. with 2,2',2''-
 nitrilotris[ethanol] (9CI)

OTHER NAMES:

CN Acrylic acid-ethylene copolymer triethanolamine salt

CN Acrylic acid-ethylene polymer triethanolamine salt

DR 129022-19-1

MF C6 H15 N O3 . x (C3 H4 O2 . C2 H4)x

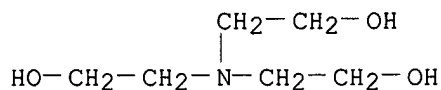
PCT Polyacrylic, Polyolefin

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 102-71-6

CMF C6 H15 N O3

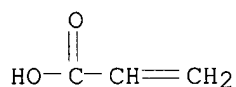


CM 2

CRN 9010-77-9
 CMF (C3 H4 O2 . C2 H4) x
 CCI PMS

CM 3

CRN 79-10-7
 CMF C3 H4 O2



CM 4

CRN 74-85-1
 CMF C2 H4



7 REFERENCES IN FILE CA (1967 TO DATE)
 7 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:37070
 REFERENCE 2: 131:185986
 REFERENCE 3: 119:205525
 REFERENCE 4: 119:10091
 REFERENCE 5: 113:98731
 REFERENCE 6: 106:121527
 REFERENCE 7: 77:50355

L89 ANSWER 149 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 38531-17-8 REGISTRY
 CN 2-Propenoic acid, polymer with ethene, compd. with 2-(diethylamino)ethanol
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethanol, 2-(diethylamino)-, compd. with ethene polymer with 2-propenoic
 acid (9CI)
 CN Ethene, polymer with 2-propenoic acid, compd. with 2-(diethylamino)ethanol
 (9CI)
 OTHER NAMES:
 CN Acrylic acid-ethylene copolymer N,N-diethylethanolamine salt

MF C6 H15 N O . x (C3 H4 O2 . C2 H4)x
PCT Polyacrylic, Polyolefin
LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 100-37-8
CMF C6 H15 N O

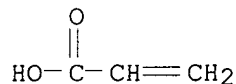
Et₂N-CH₂-CH₂-OH

CM 2

CRN 9010-77-9
CMF (C3 H4 O2 . C2 H4)x
CCI PMS

CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

CRN 74-85-1
CMF C2 H4



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:121527

REFERENCE 2: 106:68842

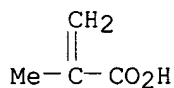
REFERENCE 3: 77:50355

L89 ANSWER 150 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 35528-36-0 REGISTRY
CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane (9CI)
CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid (9CI)
OTHER NAMES:
CN Ethylene-ethylene oxide-methacrylic acid polymer
MF (C4 H6 O2 . C2 H4 O . C2 H4)x
CI PMS

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
LC STN Files: CA, CAPLUS

CM 1

CRN 79-41-4
CMF C4 H6 O2



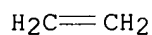
CM 2

CRN 75-21-8
CMF C2 H4 O



CM 3

CRN 74-85-1
CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 76:73031

L89 ANSWER 151 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 31904-94-6 REGISTRY

CN Butanedioic acid, polymer with 1,2,3-propanetriol and 2-propenoic acid
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2,3-Propanetriol, polymer with butanedioic acid and 2-propenoic acid
(9CI)

CN 2-Propenoic acid, polymer with butanedioic acid and 1,2,3-propanetriol
(9CI)

CN Succinic acid, polyester with acrylic acid and glycerol (8CI)

OTHER NAMES:

CN Glycerine diacrylate succinate

MF (C4 H6 O4 . C3 H8 O3 . C3 H4 O2)x

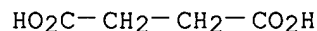
CI PMS

PCT Polyacrylic, Polyester, Polyester formed

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

CM 1

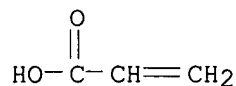
CRN 110-15-6
CMF C4 H6 O4



CM 2

CRN 79-10-7

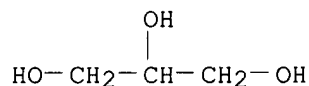
CMF C3 H4 O2



CM 3

CRN 56-81-5

CMF C3 H8 O3



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 76:101346

REFERENCE 2: 74:88758

L89 ANSWER 152 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 30915-64-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, sodium salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, sodium salt
(9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, sodium salt

CN Maleic acid, polymer with 2-methylpropene, sodium salt (8CI)

OTHER NAMES:

CN Isobutene-maleic acid copolymer sodium salt

CN Isobutylene-maleic acid copolymer sodium salt

CN Polystar OMR

FS STEREOSEARCH

DR 110864-53-4

MF (C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

CRN 28327-80-2

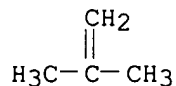
CMF (C4 H8 . C4 H4 O4)x

CCI PMS

CM 2

CRN 115-11-7

CMF C4 H8

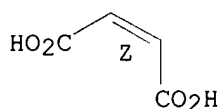


CM 3

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



39 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 39 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:142221

REFERENCE 2: 133:256547

REFERENCE 3: 128:220860

REFERENCE 4: 128:105437

REFERENCE 5: 127:308661

REFERENCE 6: 125:307338

REFERENCE 7: 124:95603

REFERENCE 8: 116:230204

REFERENCE 9: 115:186619

REFERENCE 10: 115:116846

L89 ANSWER 153 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 28327-80-2 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene

CN Maleic acid, polymer with 2-methylpropene (8CI)

CN Propene, 2-methyl-, polymer with maleic acid (8CI)

OTHER NAMES:

CN Isobutene-maleic acid copolymer

CN Isobutene-maleic acid polymer

CN Isobutylene-maleic acid copolymer

CN Isobutylene-maleic acid polymer

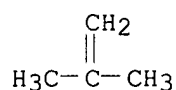
CN KI 210

CN Maleic acid-isobutene copolymer

CN Maleic acid-isobutene polymer
 CN Maleic acid-isobutylene copolymer
 CN Maleic acid-isobutylene polymer
 FS STEREOSEARCH
 DR 77045-93-3
 MF (C4 H8 . C4 H4 O4)x
 CI PMS, COM
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

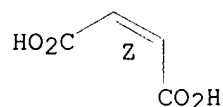
CRN 115-11-7
 CMF C4 H8



CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



135 REFERENCES IN FILE CA (1967 TO DATE)
 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 135 REFERENCES IN FILE CAPLUS (1967 TO DATE)

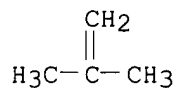
REFERENCE 1: 136:387626
 REFERENCE 2: 136:281959
 REFERENCE 3: 135:181524
 REFERENCE 4: 135:181502
 REFERENCE 5: 135:66063
 REFERENCE 6: 134:180345
 REFERENCE 7: 134:166268
 REFERENCE 8: 134:149334
 REFERENCE 9: 133:283717
 REFERENCE 10: 133:218842

L89 ANSWER 154 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 26426-80-2 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione (9CI)
 CN Maleic anhydride, polymer with 2-methylpropene (8CI)
 CN Propene, 2-methyl-, polymer with maleic anhydride (8CI)
 OTHER NAMES:
 CN BM 30AE20
 CN Fibersorb SA 7200H
 CN IB 6
 CN Isobam
 CN Isobam 01
 CN Isobam 04
 CN Isobam 06
 CN Isobam 18
 CN Isobam 304D
 CN Isobam 600
 CN Isobam HH
 CN Isobutene-maleic anhydride copolymer
 CN Isobutene-maleic anhydride polymer
 CN Isobutylene-maleic acid anhydride copolymer
 CN Isobutylene-maleic anhydride copolymer
 CN Isobutylene-maleic anhydride polymer
 CN KI Gel
 CN KI Gel 20
 CN KI Gel 201K-F2
 CN KI Gel 201K-F3
 CN KI Gel 201K-F4Q
 CN KI Gel 210K
 CN KI Gel F 3
 CN Kuratack 110
 CN Maleic anhydride-isobutene copolymer
 CN Maleic anhydride-isobutylene copolymer
 CN PE 60
 CN T 731
 DR 97048-07-2, 110650-69-6
 MF (C4 H8 . C4 H2 O3)x
 CI PMS, COM
 PCT Polyolefin, Polyvinyl
 LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, IFICDB, IFIPAT,
 IFIUDB, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL
 Other Sources: DSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

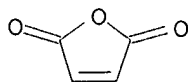
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 108-31-6
 CMF C4 H2 O3



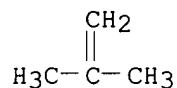
965 REFERENCES IN FILE CA (1967 TO DATE)
242 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
965 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:141614
REFERENCE 2: 137:110636
REFERENCE 3: 137:110620
REFERENCE 4: 137:94942
REFERENCE 5: 137:94921
REFERENCE 6: 137:21388
REFERENCE 7: 136:370731
REFERENCE 8: 136:329926
REFERENCE 9: 136:326031
REFERENCE 10: 136:301881

L89 ANSWER 155 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 25038-20-4 REGISTRY
CN 2-Propenoic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propene, 2-methyl-, polymer with 2-propenoic acid (9CI)
OTHER NAMES:
CN Acrylic acid-isobutene copolymer
CN Acrylic acid-isobutene polymer
CN Acrylic acid-isobutylene copolymer
CN Acrylic acid-isobutylene polymer
MF (C4 H8 . C3 H4 O2)x
CI PMS, COM
PCT Polyacrylic, Polyolefin
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

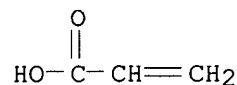
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 79-10-7
CMF C3 H4 O2



8 REFERENCES IN FILE CA (1967 TO DATE)
8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:402104
REFERENCE 2: 130:298230
REFERENCE 3: 100:140955
REFERENCE 4: 94:217502
REFERENCE 5: 87:86070
REFERENCE 6: 80:49530
REFERENCE 7: 78:160362
REFERENCE 8: 77:140924

=> d his

(FILE 'HOME' ENTERED AT 08:30:33 ON 30 AUG 2002)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 08:30:53 ON 30 AUG 2002

L1 E KLUG P/AU
62 S E3,E7
E HENNING T/AU
L2 100 S E3-E5,E14
E SCHERL F/AU
L3 8 S E4,E5
E CLARIANT/PA,CS
L4 1103 S E3,E4
L5 168 S L1,L2,L3
L6 1 S L5 AND ?SUCCIN?
L7 42 S L4 AND L5
L8 1 S L1 AND L2,L3
L9 1 S L2 AND L3
L10 1 S L8,L9
SEL AN DN L7 5
L11 1 S E1-E3
L12 1 S L10,L11
SEL RN

FILE 'REGISTRY' ENTERED AT 08:39:19 ON 30 AUG 2002

L13 8 S E4-E11
E ETHYLENE/CN
L14 1 S E3
E PROPYLENE/CN
L15 1 S E3
E BUTYLENE/CN
L16 1 S E3
E IOSBUTENE/CN
E IOSBUTLENE/CN
E IOSBUTYLENE/CN
E ISOBUTENE/CN
L17 1 S E3
L18 4 S L14-L17
L19 2 S 108-30-5 OR 110-15-6
E ACRYLIC ANHYDRIDE/CN
L20 1 S E3
E METHACRYLIC ANHYDRIDE/CN

L21 1 S E3
L22 2 S 79-10-7 OR 79-41-4
L23 4 S 6915-18-0 OR 110-17-8 OR 110-16-7 OR 108-31-6
L24 8 S L20-L23
L25 2 S 25322-68-3 OR 75-21-8
L26 4 S 56-81-5 OR 102-71-6 OR 112-35-6 OR 100-37-8
L27 6 S L18 OR L19
SEL RN
L28 23796 S E1-E6/CRN
SEL RN L24
L29 157109 S E7-E14/CRN
L30 6 S L25 OR L26
SEL RN
L31 45097 S E15-E20/CRN
L32 4751 S L28 AND L29
L33 148 S L32 AND L31
L34 41 S L33 AND 46.150.18/RID
L35 107 S L33 NOT L34
L36 19 S C3H6O AND L35
L37 88 S L35 NOT L36
L38 51 S L37 AND (C7H12 OR C4H8O OR C3H5CLO OR C3H8O3 OR CH2O OR C7H10
L39 7 S L37 AND ((C6 OR NC2)/ES OR (SI OR S)/ELS)
L40 12 S L38 AND 3/NC
L41 1732 S 556-52-5/CRN
L42 41 S L38 NOT L41
L43 9 S L42 AND 3/NC
L44 6 S L43 NOT (N/ELS OR ACETATE)
L45 1 S L42 AND NA/ELS
L46 2 S L42 AND CH4O
L47 8 S L42 AND C2H4 AND C4H6O2 AND C2H4O
L48 6 S L47 NOT (C6H10 OR CH2O)
L49 78 S L37 NOT L41
L50 37 S L49 NOT L38
L51 9 S L50 AND (SI/ELS OR 67-56-1/CRN OR DODECYL OR OCTADECANOIC OR
L52 28 S L50 NOT L51
L53 8 S 115-11-7/CRN AND (108-30-5 OR 110-15-6)/CRN
L54 2 S L53 AND 2/NC
L55 4 S L53 AND 3/NC
L56 1 S L53 AND H3N
L57 1 S L55 NOT N/ELS
L58 4 S L53 NOT L54,L56,L57
SEL RN L23
L59 419 S E21-E24/CRN AND 115-11-7/CRN
L60 8 S L59 AND 2/NC
L61 27 S L59 AND L31
L62 7 S L61 AND 3/NC
L63 4 S L62 NOT (556-52-5/CRN OR C6/ES)
L64 20 S L61 NOT L62
L65 8 S L64 AND (NA/ELS OR H3N)
L66 3 S L65 NOT 556-52-5/CRN
L67 1 S 115634-83-8
L68 107 S L59 AND (556-52-5/CRN OR C6/ES)
L69 291 S L59 NOT L60-L68
L70 173 S L69 NOT SALT
L71 118 S L69 NOT L70
L72 30 S L71 AND 3/NC
L73 28 S L72 NOT (C2H7NO OR CH5N3)
L74 71 S L71 AND 4/NC
L75 6 S L74 AND NA/ELS AND (MG OR CA OR ZN OR AL OR FE OR NI)/ELS
L76 129 S L70 AND 3/NC
L77 97 S L76 NOT N/ELS
L78 92 S L77 NOT UNSPECIFIED
L79 86 S L78 NOT CYCLODEX?

L80 4 S L20-L22
SEL RN
L81 87 S E25-E28/CRN AND 115-11-7/CRN
L82 4 S L81 AND 2/NC
L83 5 S L81 AND L31
L84 78 S L81 NOT L82,L83
L85 8 S L84 AND NA/ELS
L86 6 S L85 NOT (N OR F)/ELS
L87 3 S L86 AND 3/NC
L88 1 S L86 AND C4H8 AND C4H2O3 AND C3H4O2
L89 155 S L44,L45,L46,L48,L52,L54,L56,L57,L60,L63,L67,L73,L74,L82,L87,L
SAV TEMP L89 ALY003656/A

FILE 'HCAPLUS' ENTERED AT 10:34:20 ON 30 AUG 2002

L90 1561 S L89
L91 1548 S L90 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
L92 0 S L4,L5 AND L90
L93 147 S (COSMETIC# OR PHARMACEUT?)/SC,SX AND L91
E EMUSIF/CT
E EMULSIF/CT
L94 18505 S E4+NT OR E21+NT
L95 0 S L93 AND L94
L96 17 S L91 AND L94
L97 96819 S COSMETIC#/CW OR DRUG DELIVERY SYSTEM#/CT
L98 25 S L93 AND L97
L99 11 S L93 AND ?EMULS?
L100 24696 S L19
L101 92878 S L17,L18
L102 9409 S L100,L101 AND L20-L22,L23
L103 755 S L25,L26 AND L102
L104 133 S L103 AND (COSMETIC# OR PHARMACEUT?)/SC,SX
L105 49 S L103 AND (COSMETIC# OR PHARMACEUT?)/CW
L106 42 S L103 AND DRUG DELIVERY?/CT
L107 136 S L104-L106
L108 30 S L4,L5 AND L100,L101
L109 7 S L108 AND L24
L110 1 S L5 AND L108
L111 1 S L110 AND L25,L26
L112 1879 S L100 AND L25,L26
L113 4120 S L24 AND L25,L26
L114 363 S L112,L113 AND COSMETIC#/SC,SC,CW
L115 800 S L112,L113 AND PHARMACEUT?/SC,SX,CW
L116 320 S L112,L113 AND DRUG DELIVER?/CT
L117 142 S L114-L116 AND ?EMULS?
L118 41 S L117 AND ?SUCCIN?
L119 12 S L117 AND ?ISOBUT?
L120 0 S L17 AND L117
L121 49 S L118,L119
L122 2 S L121 AND L91
L123 21 S L98 NOT L99
SEL DN AN 9
L124 1 S E1-E3
L125 2 S L111,L124
L126 1 S L89 (L) COS/RL
L127 41 S L89 (L) THU/RL
L128 24 S L89 AND 62/SC
L129 65 S L125-L128 AND L1-L12,L90-L128
L130 65 S L129 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
L131 1879 S L19 AND L25,L26
L132 77 S L131 AND 62/SC
L133 74 S L132 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
L134 4 S L133 AND L94
L135 12 S L133 AND ?EMULS? NOT L134

SEL DN AN 4 12
L136 2 S L135 AND E4-E9
L137 4 S L125,L136
L138 2 S L130 AND L137
L139 4 S L137,L138
L140 63 S L130 NOT L139
L141 7 S L140 AND (OLEFIN? OR CONETWORK? OR ISOBUTYL? OR MODIF? MALEIC
L142 11 S L139,L141 AND L1-L12,L90-L141
L143 11 S L142 AND (?SUCCIN? OR ?MALEIC? OR ?ISOBUT? OR ?ACRYL? OR ?EMU
L144 4 S L13 AND L143
L145 11 S L143,L144

FILE 'HCAPLUS' ENTERED AT 11:11:18 ON 30 AUG 2002

FILE 'REGISTRY' ENTERED AT 11:11:38 ON 30 AUG 2002